Environment Canada Environnement Canada

Sediment Data

Yukon and Northwest Territories

Données sur les sédiments

Yukon et Territoires du Nord-Ouest

1990

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
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OTTAWA, CANADA, 1992

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PREFACE

This publication was prepared by personnel of the Sediment Survey Section, Water Survey of Canada Division, under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Calgary, Alberta.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

Le groupe d'étude des sédiments de la Division des relevés hydrologiques du Canada, sous l'autorité du directeur des Ressources en eau du ministère de l'Environnement, à Ottawa, a préparé la présente publication.

Le chef régional de la Direction des ressources en eau, à Calgary (Alberta), a supervisé la collecte et la compilation des données de base.

Nous remercions vivement les organismes provinciaux, ou autres, pour leur collaboration.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1990 calendar year the annual suspended sediment data and a historical data summary for the sediment survey investigations conducted in the Yukon and Northwest Territories by the Water Survey of Canada.

Data on the character and quantity of fluvial sediments provided by sediment survey investigations are intended for use in studies of water quality, environmental impacts, river processes and behaviour, and engineering design.

General introductory information on the sediment survey is included in this publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

Details on individual stations and related records, as well as recent data that have not yet been published, may be obtained upon application to:

Chief, N.W.T. Programs,
Inland Waters Directorate,
Department of the Environment,
P.O. Box 2970,
Yellowknife, N.W.T.
X1A 2R2
(403 920-8500)

Water Resources Branch,
Department of the Environment,
Room 502,
1001 West Pender Street,
Vancouver, B.C.
V6E 2M9
(604 666-3859)

or to the Director, Surveys and Information Systems Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-2098).

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INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les données annuelles sur les sédiments en suspension pour 1990 et le sommaire des données chronologiques sur les sédiments, à la suite des études effectuées dans les cours d'eau du Yukon et des Territoires du Nord-Ouest par la Division des relevés hydrologiques du Canada.

Les données recueillies sur la nature et l'importance de la charge solide dans les cours d'eau doivent servir aux études portant sur la qualité des eaux, les incidences environnementales, les processus fluviaux, le comportement des cours d'eau et la conception de projets.

La presente publication contient des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications régulières présentant des données sur les eaux de surface.

On peut obtenir des renseignements supplémentaires sur les stations et les relevés, ainsi que des données récentes non encore publiées, en s'adressant au:

Chef des programmes des T.N.-O.
Direction générale des eaux intérieures
Ministère de l'Environnement
C.P. 2970
Yellowknife (T.N.-O.)
X1A 2R2
(403 920-8500)

Direction des ressources en eau
Ministère de l'Environnement
502-1001, rue Pender ouest
Vancouver (C.-B.)
V6E 2M9
(604 666-3859)

ou au Directeur, Relevés et systèmes d'information, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-2098).

SCOPE OF PUBLICATION

Descriptive information about sediment stations is given. This refers to the Location, Latitude and Longitude, Drainage Area and whether the flow is Natural Flow or Regulated Flow (the year that regulation began is given, if known), Type of Gauge and the Total Suspended Sediment Load in Tonnes for the Period of Record is also included. International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions at the sediment station that could affect the data results are explained under "Remarks".

This publication contains data on streamflow, instantaneous suspended sediment concentration; daily mean suspended sediment concentration; daily suspended sediment loads; dissolved solids concentration; load summary; particle-size distribution of suspended sediment in percent sand, silt and clay; bed load and bed material; water temperature when samples were collected; type of sampler and the single sampling vertical location.

A historical sediment data summary includes such information as Sampled Concentration Maximum and Minimum; Suspended Sediment Load Maximum Daily and the Total for Period. The Period of Record and the Type of Operation for each year of data are also given. A Summary for the Months of record gives the Period of Record Mean, the Mean for Period of Record and the Standard Error of Mean as a percent.

HISTORY AND OBJECTIVES OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of federal and provincial agencies for assessment of particular projects. Although the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

(1) Collection and provision of data related to sediment transport in Canadian rivers for applications in water resource engineering, water quality and environmental studies.

(2) Provision of information and advice related to sediment transport.

(3) Assessment, improvement and standardization of equipment and techniques used in Canada's sediment survey program.

PUBLICATION OF SEDIMENT DATA

Sediment data have been published in a variety of formats since the beginning of the Sediment Survey Program.

PORTÉE DE LA PUBLICATION

Des données descriptives sont présentées sur les stations d'étude des sédiments. Elles concernent leur emplacement, leurs latitude et longitude, leur bassin versant, la nature de débit (naturel ou régularisé, avec indication, le cas échéant, de l'année où la régularisation a commencé, si elle est connue), le type d'instrument de mesure employé et le débit total des sédiments en suspension (en tonnes) pour la période de relevé. Les stations internationales de jaugeage sont indiquées, ainsi que le nom des organismes qui fournissent les données. Des explications concernant des conditions exceptionnelles qui ont pu influer sur les résultats sont présentées dans la partie «Remarques».

Cette publication renferme des données sur le débit des cours d'eau, les concentrations instantanées de sédiments en suspension, les concentrations journalières moyennes de sédiments en suspension, les débits journaliers de sédiments en suspension, les concentrations de matières dissoutes, les débits solides totaux (résumés), la granulométrie des sédiments en suspension exprimée en pourcentage de sable, de limon et d'argile, le charriage et les matériaux du lit, la température de l'eau au moment de l'échantillonnage, le type d'échantillonneur employé et l'emplacement des verticales de prélèvement d'échantillons uniques.

Un résumé des données historiques sur les sédiments est inclus. On y trouve divers renseignements comme les concentrations maximale et minimale mesurées, le débit journalier maximal des sédiments en suspension et le total pour la période. La période de relevé et le type d'exploitation des stations sont indiqués pour chaque année. Dans un résumé pour les mois de relevé, on donne la moyenne pour chaque période et pour l'ensemble des périodes de relevé ainsi que l'erreur-type de la moyenne, en pourcentage.

HISTORIQUE ET OBJECTIFS DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts de ces études sont de:

(1) réunir et produire des données sur les transports solides dans les cours d'eau canadiens, données dont on peut avoir besoin pour des études concernant l'environnement, la qualité des eaux et la conception de projets portant sur les ressources en eau.

(2) produire des informations concernant les transports solides.

(3) évaluer, améliorer et uniformiser le matériel et les techniques employés dans le programme d'étude des sédiments au Canada.

PUBLICATION DES DONNÉES SUR LES SÉDIMENTS

Depuis le début du programme d'étude des sédiments, la présentation des données a varié.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* were published in a new format wherein Canada was divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

A new edition, *Miscellaneous Sediment Data 1966 to 1983*, was published. It contains a tabulation of locations in Canada where miscellaneous data were collected but not previously published by the Water Survey of Canada. The following data are included in this one time publication: date and time of sample collection; instantaneous discharge or daily mean discharge; sampling vertical; instantaneous concentration; dissolved solids for some samples: type of sampler used; particle size distribution of suspended sediment in percent sand, silt and clay for some depth integrated samples and/or measurements, and some point integrated measurements; particle size distribution of bed load; particle size distribution of bed material; and the water temperature at time of sampling for some samples is also given where available.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

En 1984, la présentation des *Données sur les sédiments* a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Une édition récente intitulée *Données diverses sur les sédiments, 1966 à 1983* vient de paraître. On y présente sous forme de tableau les emplacements où des données diverses non encore publiées ont été recueillies au Canada par la Division des relevés hydrologiques. Cette première édition comprend des données telles que : la date et la durée de l'échantillonnage; le débit instantané ou débit journalier moyen; la verticale d'échantillonnage; les concentrations instantanées; les concentrations de matières solides en solution pour certains échantillons; le type d'échantillonneur employé; la granulométrie des sédiments en suspension en pourcentage de sable, de limon et d'argile, dans le cas de mesures avec intégration selon la profondeur ou d'échantillons intégrés sur toute la profondeur, et dans le cas de mesures par la méthode ponctuelle; la granulométrie du charriage; la granulométrie des matériaux du lit; la température de l'eau lors du prélèvement d'échantillons, lorsque celle-ci est connue.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain cross sections are located at traffic bridges, while others are equipped with cableways, or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.

(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.

(c) Depth-integrating suspended sediment samplers, USD-49, and USD-74, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Point-integrating suspended sediment samplers, USP-61, USP-61-A1, USP-63, and USP-72, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross section with velocities up to two metres per second.

(e) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(f) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(g) Bed material sampler, USBMH-60, used on some large or deep streams or on those streams with soft-packed streambeds.

(h) Bed material sampler, USBMH-53, used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment load measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment load by the

COLLECTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) L'échantillonneur intégrateur selon la profondeur, type simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;

(b) L'échantillonneur intégrateur selon la profondeur USDH-59, utilisé comme une ligne dans les cours d'eau petits et moyens;

(c) Les échantillonneurs intégrateurs selon la profondeur USD-49 et USD-74 fixés au bout d'une corde s'enroulant autour d'un moulinet et employés dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;

(d) Les échantillonneurs intégrateurs USP-61, USP-61-A1, USP-63 et USP-72, employés ponctuellement ou sur toute la verticale, et utilisés lorsque la profondeur est supérieure à cinq mètres ou dans les sections transversales qui connaissent un débit qui atteint 2 m/s.

(e) Un échantillonneur automatique permettant le prélèvement en bouteilles, sans surveillance, d'échantillons uniques d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;

(f) L'échantillonneur USBM-54 employé pour le prélèvement d'échantillons des matériaux du lit dans les cours d'eau importants ou profonds ou dans les cours d'eau dont le fond est dur;

(g) L'échantillonneur USBMH-60 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est meuble;

(h) L'échantillonneur USBMH-53 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau petits ou peu profonds;

(i) La drague employée pour le prélèvement d'échantillons des matériaux du lit dans de petits cours d'eau ou dans des cours d'eau dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation de la hauteur des eaux, la mesure du débit de l'eau, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. Les mesures du débit de l'eau et du débit des sédiments se font conjointement, suivant les méthodes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) La mesure périodique du débit des sédiments en suspension par la méthode d'intégration sur toute la profondeur

depth-integrating method for determining the average suspended sediment concentration in the cross section.

(b) Single suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment load measurements are not taken.

(c) Limited measurement of suspended sediment load by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross section.

(d) Sampling of bed material for determining particle-size distribution.

(e) Periodic measurement of bed load.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Load by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the suspended sediment load in the entire cross section of a stream, the average suspended sediment concentration in the cross section, and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the water surface to the streambed and could vary from streambank to streambank.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross section is divided into at least five equal-flow panels and a representative suspended sediment sample is collected from each portion. For each panel of the cross section, the suspended sediment load (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment load (R) for the cross section may be computed by adding the sediment loads for the five equal-flow panels:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment concentration. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Single Suspended Sediment Samples at a Selected Vertical*: Single suspended sediment samples, consisting of two bottles each, are collected routinely using the depth or point-integrating samplers at a permanently fixed vertical in a cross section. During periods of very heavy sediment concentration, two or three single sediment samples may be taken per day, while during periods of low concentration, one single sediment sample may only be taken every few days. During extremely low flow periods, the sampling may be limited to one single sample in several weeks or months.

(c) *Suspended Sediment Load by Point-Integrating Method*: A limited number of suspended sediment load measurements are made by the point-integrating method. These measurements are included in the program (a) to check by comparison the "measured" sediment loads obtained by the depth-integrating method with the suspended sediment loads by the point-integrating method and (b) to obtain samples from which to determine particle-size distribution

pour la détermination de la concentration moyenne dans une section transversale;

(b) Le prélèvement d'échantillons uniques des sédiments en suspension selon une verticale choisie, afin de déterminer la concentration des sédiments les journées où le débit des sédiments en suspension n'est pas mesuré;

(c) Un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) L'échantillonnage des matériaux du lit afin d'en déterminer la granulométrie;

(e) La mesure périodique du charriage.

Voici une brève description des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer le débit des sédiments en suspension traversant toute une section transversale d'un cours d'eau, la concentration moyenne des sédiments en suspension dans la section transversale et la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente généralement avec la profondeur et qu'elle peut varier d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches où le débit est égal et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R) pour la section transversale est la somme des débits des sédiments des cinq tranches:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

La méthode par intégration sur toute la profondeur est employée pour mesurer la concentration des sédiments en suspension. Elle suppose que l'échantillonneur se remplit à un rythme proportionnel au débit de l'eau et qu'en étant déplacé à une vitesse uniforme sur toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de celle-ci.

(b) *Prélèvement d'échantillons uniques de sédiments en suspension sur une verticale choisie*: De tels échantillons, constitués chacun de deux bouteilles, sont prélevés régulièrement à l'aide d'appareils intégrateurs, selon la profondeur ou ponctuels, sur une verticale permanente d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon peut être prélevé à quelques jours d'intervalle lorsqu'elle est faible. Au cours des périodes où le débit est extrêmement faible, l'échantillonnage peut être limité à un échantillon toutes les quelques semaine ou tous les quelques mois.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: Un nombre limité de mesures du débit des sédiments en suspension sont faites avec cette méthode. On y a recours a) pour vérifier les valeurs du débit mesurées au moyen de la méthode précédente et b) pour obtenir des échantillons en vue de déterminer la granulométrie des sédiments en divers points de la

at different points in the cross section. The point-integrating sediment loads are computed by graphical methods.

The relationship between the suspended sediment concentration of the single vertical samples and the average concentration in the cross section determined from the suspended sediment load measurements is established for some stations. Using this relationship, the sediment concentrations of the single vertical samples are adjusted to reflect the average suspended sediment concentration in the cross section. These average sediment concentrations in the cross sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration (mg/L), by the daily mean discharge (m^3/s), and the conversion factor, 0.0864.

(d) *Bed Material Sampling*: In a cross section, bed material samples are usually taken in the same sampling verticals as the suspended sediment samples. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross section. The total number of bed material samples taken in a cross section usually varies between five and nine.

(e) *Bed Load Measurement*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Load*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario; and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) filtration method, (2) evaporation method and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

section transversale. Cette méthode fait appel à des graphiques pour le calcul du débit des sédiments.

Le rapport entre la concentration des sédiments en suspension dans les échantillons prélevés sur une seule verticale et la concentration moyenne dans la section transversale, telle que déterminée à partir des mesures du débit des sédiments en suspension, est établi pour quelques stations. Il permet de corriger les concentrations mesurées à une seule verticale de manière à donner la concentration moyenne dans la section transversale. Les concentrations moyennes ainsi déterminées sont reportées sur un graphique, et une courbe lisse passant par les points marqués est tracée. Le graphique obtenu représente la concentration moyenne des sédiments en suspension pour la période de relevé. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs journalières du débit des sédiments en suspension sont calculées à partir du débit du cours d'eau et des concentrations des sédiments en suspension recueillis. Elles sont exprimées en tonnes par jour. On les détermine en multipliant la concentration moyenne journalière des sédiments (mg/L) par le débit moyen journalier (m^3/s) et par un facteur de conversion approprié, 0.0864.

(d) *Échantillonnage des matériaux du lit*: Dans une section transversale, les échantillons des matériaux du lit sont ordinairement prélevés aux mêmes verticales que ceux des sédiments en suspension. Souvent, des échantillons supplémentaires sont pris près des rives, là où le niveau d'eau est extrême et à d'autres points de la section transversale. Leur nombre total pour une section donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du charriage*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.). Le choix se fondera sur la nature du régime du cours d'eau.

4. *Débit solide total*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) filtration, (2) évaporation, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à corriger les résultats pour tenir compte des matières dissoutes. La quantité de celles-ci est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Particle-size analysis was carried out for some suspended sediment samples having gross weights in the range of 0.15 to 5 g using the Bottom Withdrawal Tube method. The particle-size distribution of the Bottom Withdrawal Tube method ranges from 0.002 to 1.000 mm. The Sieve analysis method may be used for samples with a large amount of material coarser than 0.062 mm.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.000 24 – 0.004
Silt	0.004 – 0.062
Sand	0.062 – 2.0
Gravel	2.0 – 64.0

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analyzed in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbol (S) on the daily mean concentrations.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those records obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Une analyse granulométrique a été effectuée pour certains échantillons de sédiments en suspension ayant un poids brut dans l'intervalle de 0.15 à 5 g par la méthode de la burette (extraction des sédiments déposés, à divers intervalles). La distribution de la taille des particules déterminée par cette méthode varie de 0.002 à 1.000 mm. La méthode de tamisage peut être employée pour les échantillons ayant une forte quantité de particules de taille supérieure à 0.062 mm.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.000 24 – 0.004
Limon	0.004 – 0.062
Sable	0.062 – 2.0
Gravier	2.0 – 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique avant d'être analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée d'après la fréquence d'utilisation du symbole (S), avec les données sur la concentration journalière moyenne.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas des petits cours d'eau ou des cours d'eau à crues très rapides.

METHOD OF TABULATION OF SEDIMENT DATA

For stations where the suspended sediment load was obtained, the following data are given where available:

1. The table of *Suspended Sediment Load* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, and the daily suspended sediment load in tonnes per day. The total monthly discharge and total monthly sediment load are also given for each month of record.

For stations where the sediment load in tonnes per day are produced for complete or partial years, the *Total Suspended Load* for the period is given in the descriptive information.

For stations where only suspended sediment concentrations are obtained, the table of *Suspended Sediment Load* will not be given.

Additional descriptive information about the sediment station is also given and will indicate the following, where applicable.

Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

Drainage area – refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

Type of Flow – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

(a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

(b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

International Gauging Station – on waters adjacent to the international boundary, certain gauging stations have been

PRÉSENTATION DES TABLEAUX DE DONNÉES SUR LES SÉDIMENTS

Pour les stations de mesure du débit des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. Le tableau concernant le *débit des sédiments en suspension* (The table of Suspended Sediment Load) donne le débit journalier moyen de l'eau, en mètres cubes par seconde, la concentration journalière moyenne, en milligrammes par litre, et le débit journalier des sédiments en suspension, en tonnes par jour. Chaque mois les données indiquent également les débits mensuels totaux de l'eau et des sédiments.

Dans le cas des stations où le débit des sédiments, en tonnes par jour, est fourni pour une année complète ou une partie de l'année, le total pour la période est indiqué.

Dans le cas des stations où seule la concentration des sédiments en suspension est obtenue, ce tableau est absent.

Des renseignements descriptifs additionnels au sujet de la station sont également présentées. On peut y apporter les précisions suivantes:

Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'equipement de mesure est situé à une bonne distance de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

Superficie du bassin versant (Drainage area) – Désigne la zone délimitée par une ligne de faîte de sorte que l'écoulement de surface direct provenant des précipitations est entraîné par gravité vers le cours d'eau, en amont de la station.

Type de débit (Type of Flow) – Un débit reconnu comme naturel est indiqué. Le débit de nombreux réseaux hydrographiques est modifié par une régularisation effectuée en amont. Dans certains cas, l'importance de cette régularisation n'est pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique, ainsi que l'année où elle a débuté (si elle est connue).

Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau ou le débit d'un cours d'eau.

(a) *Manuel* (Manual) – Indique qu'un appareil non enregistreur est employé pour obtenir normalement une fois par jour les données sur le niveau et le débit du cours d'eau.

(b) *Enregistreuse* (Recording) – Indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux qui est tracé sur un graphique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

Station internationale de jaugeage (International Gauging Station) – Dans les eaux contiguës aux frontières, on a

designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

2. The table of *Instantaneous Suspended Sediment Concentration* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Single Sampling Vertical location; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used. The particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay, is given where available.

The Single Sampling Vertical Location is defined by many symbols, which are as follows, where applicable:

DIGITS - 5, 14, 130, etc., is the distance in metres from the initial point
WERB - Water's Edge RIGHT Bank
WELB - Water's Edge LEFT Bank
1QRB - One-quarter the distance FROM the RIGHT Bank
3QRB - Three-quarters the distance FROM the RIGHT Bank
1QLB - One-quarter the distance FROM the LEFT Bank
3QLB - Three-quarters the distance FROM the LEFT Bank
MID - MID STREAM
MULT - Composite sediment measurement

For the suspended sediment measurements, the Date; Time; Water Temperature at time of sampling; Discharge computed for each sampling panel; Concentration; Sampling Vertical; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used; and the Particle-size distribution of the Sand, Silt and Clay, in percent is given where available.

3. The table of *Split Vertical Suspended Sediment* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Sampling Vertical; Depth of Sample (giving the depth sampled from and the depth sampled to); Concentration of Sample, in milligrams per litre, Dissolved solids, in milligrams per litre; and the Particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay are also given.

désigné certaines stations comme «internationales», et les données obtenues sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publications et dans les *United States Water Supply Papers* sont dues à des variantes dans les techniques de traitement automatique des données.

Données fournies (Contributed Data) – Lorsqu'un organisme extérieur a fourni toutes les données ou une partie des données, son nom est indiqué.

Remarques (Remarks) – Renseignements au sujet du prélèvement des échantillons de sédiments.

2. Le tableau des *concentrations instantanées de sédiments en suspension* (The table of Instantaneous Suspended Sediment Concentration) pour les échantillons obtenus par intégration selon la profondeur comprend: la date et l'heure de prélèvement; la température de l'eau; son débit instantané au moment de l'échantillonnage (s'il n'est pas connu, le débit journalier moyen, avec symbole); l'emplacement de la verticale d'échantillonnage; la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage en millimètres et le pourcentage des particules est donné lorsqu'il est disponible.

Le site vertical d'échantillonnage unique est défini par plusieurs symboles dont les suivants dans certains cas :

CHIFFRE - 5, 14, 130, etc., désigne la distance en mètres à partir du point initial
WERB - Bord de l'eau, rive DROITE
WELB - Bord de l'eau, rive GAUCHE
1QRB - Un quart de la distance À PARTIR de la rive DROITE
3QRB - Trois quarts de la distance À PARTIR de la rive DROITE
1QLB - Un quart de la distance À PARTIR de la rive GAUCHE
3QLB - Trois quarts de la distance À PARTIR de la rive GAUCHE
MID - MI-DÉBIT
MULT - Mesure des sédiments mixtes

Pour les mesures des sédiments en suspension, la date, l'heure, la température de l'eau au moment de l'échantillonnage, le débit calculé pour chaque tranche de la section d'échantillonnage, la concentration et la verticale d'échantillonnage, la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage des particules est donnée lorsqu'elle est disponible.

3. Le tableau des *sédiments en suspension fractionnés pris à la verticale* (The Table of Split Vertical Suspended Sediment) pour les échantillons obtenus par intégration selon la profondeur comprend les éléments suivants : la date et l'heure de l'échantillonnage; la température de l'eau; le débit instantané au moment de l'échantillonnage (s'il n'est pas disponible, on donne le débit moyen quotidien et on l'indique par un symbole), la verticale d'échantillonnage; la profondeur (donner la profondeur à laquelle l'échantillon a été pris); et la profondeur à laquelle l'échantillon a été attributé la concentration des échantillons, en milligrammes par litre; la concentration des matières dissoutes, en milligrammes par litre; la distribution des sédiments de la taille de particules en pourcentage en millimètres; le pourcentage de sable, de limon et d'argile.

4. The table of *Point Integrating Particle-size of Suspended Sediment* includes the following: Date and Time of the sample collection; Water Temperature; Panel Discharge for each sampling vertical; Sampling Vertical; Depth of Sample; Concentration of Sample, in milligrams per litre; Dissolved Solids in milligrams per litre, and the Particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay are also given.

5. The table of *Bed Load Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent in millimetres, for each sample of bed load collected.

6. The table of *Bed Material Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent in millimetres, for each sample of bed material collected.

7. The table of *Historical Sediment Data Summary* gives the following, for the period of record, where applicable.

   (a) Record Summary
   (b) Type of Sampling
   (c) Sampled Concentration, maximum and minimum
   (d) Suspended Sediment Load, maximum daily and the total, for the period, in tonnes
   (e) Summary, including mean load, the historical mean load and the standard error of the mean in percent.

(a) The *Record Summary* gives the months of record that data are available. If the complete month is on file the symbol (C) is shown, while partial months of data are indicated by the symbol (P). Months with no data on file are indicated by (-).

(b) The *Type of Sampling* indicates the type of sampling method used to collect the sediment samples during the period of operation. If the samples were collected by manual methods this is indicated by "MANUAL." If the samples were collected by a pump sampler or some other automatic method this is indicated by "AUTO." If both manual and automatic sampling methods were used this is indicated by "DUAL."

(c) The *Sampled Concentration* gives the maximum and minimum concentration, in milligrams per litre, and the date of collection for each year of record. The extreme recorded for the period of record is indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk.

(d) The *Suspended Sediment Load* gives the maximum daily load, in tonnes, and the date of occurrence. The extreme recorded is indicated by an asterisk (*). The Total for the Period gives

4. Le tableau de la *granulométrie des échantillons ponctuels et intégrés des sédiments en suspension* (The table of Point Integrating Particle-size of Suspended Sediment) comprend: la date et l'heure de prélèvement de l'échantillon, la température de l'eau, le débit de la tranche de la section pour chaque verticale d'échantillonnage, la verticale d'échantillonnage, la profondeur de l'échantillon, la concentration des échantillons, en milligrammes par litre, la concentration des matières dissoutes, en milligrammes par litre, et granulométrie en millimètres et en pourcentage du sable, du limon et de l'argile.

5. Le tableau de la *granulométrie des sédiments charriés* (The table of Bed Load Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage en millimètres des particules pour chaque échantillon recueilli du charriage.

6. Le tableau de la *granulométrie des matériaux du lit* (The table of Bed Material Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage en millimètres des particules pour chaque échantillon recueilli.

7. Le tableau du *sommaire chronologique des données sur les sédiments* (The table of Historical Sediment Data Summary) donne, pour la période pour laquelle les données sont disponibles, les renseignements suivants lorsque de telles données existent:

   (a) Le sommaire du relevé
   (b) Le type d'échantillonnage
   (c) Les concentrations mesurées, maximum et minimum
   (d) Le débit des sédiments en suspension, maximum quotidien et le total pour la période en tonnes
   (e) Résumé, comprend le débit moyen, le débit moyen chronologique et l'erreur type de la moyenne en pourcentage.

(a) Le *sommaire du relevé* donne les mois de relevé pour lesquels les données sont disponibles. Le symbole (C) indique que les données sont disponibles pour tout le mois. Le symbole (P) indique que ces données ne sont disponibles que pour une partie du mois. Enfin, on indique par (-) les mois qui n'ont pas de données.

(b) Le *type d'échantillonnage* indique le type de méthode d'échantillonnage que l'on utilise dans le prélèvement des échantillons de sédiments pendant la période d'exploitation. Si le prélèvement des échantillons se fait par des méthodes manuelles, on indique «MANUEL». Si le prélèvement des échantillons se fait au moyen d'échantillonneur à pompe ou par quelque autre méthode automatique, on indique «AUTO». Si on utilise à la fois des méthodes d'échantillonnage manuelles et automatiques, on indique «DOUBLE».

(c) Pour les *concentrations mesurées* (Sampled Concentration), on donne la concentration maximale et la concentration minimale, en milligrammes par litre, et leur date d'obtention pour chaque année de relevé. La valeur extrême enregistrée est indiquée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure.

(d) Sous le *débit des sédiments en suspension* (Suspended Sediment Load), on donne le débit journalier maximal, en tonnes, et sa date de mesure. Le débit extrême enregistré est indiqué

the total load for the period or year, in tonnes. The extreme recorded is also indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk. A load which has been revised since the previous publication is marked with the symbol (R) for Revision.

(e) The *Summary* gives the *Mean Load* and the *Historical Mean Load* in tonnes.

The *Standard Error of the Mean* % is calculated using the following equations:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

and

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

where SEM is the Standard Error of the Mean.

- S is the Standard Deviation of the annual mean loads.
- x is the annual Mean Load variable.
- $\bar{x}$ is the Historical Mean Load or the arithmetic mean of the annual Mean Loads.
- n is the number of years for which there is an annual Mean Load.

For stations with only instantaneous samples, this table will not include the *Suspended Sediment Load* or the statistical information in the *Summary*.

DEFINITION OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed material is the sediment mixture of which the streambed is composed.

Daily load is the suspended sediment load expressed in tonnes for a particular day. The daily load is obtained by multiplying the daily mean sediment concentration (mg/L) by the daily mean discharge (m^3/s) and the conversion factor, 0.0864.

Daily mean concentration is a time-weighted mean value and is computed from a manually constructed concentration curve. The mean concentration value may be determined arithmetically or graphically. The arithmetic mean is obtained either by (1) selecting values from the concentration graph that represents uniform intervals of time and taking the arithmetic average or by (2) selecting values from the graph that represent unequal intervals of time and weighing these values by the

par un astérisque (*). Le débit total pour la période ou pour l'année est indiqué. La valeur extrême est également signalée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure. La lettre R indique qu'une valeur du débit a été révisée depuis la dernière publication.

(e) Le *résumé* donne le *débit moyen* et le *débit moyen chronologique*, en tonnes.

L'*erreur-type de la moyenne* % (Standard Error of the Mean), est calculée à l'aide des équations suivantes:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

et

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

où SEM est l'erreur type de la moyenne.

- S est l'écart type des débits moyens annuels.
- x est la variable du débit moyen annuel.
- $\bar{x}$ est le débit moyen chronologique ou la moyenne arithmétique des débits moyens annuels.
- n est le nombre d'années où il y a un débit moyen annuel.

Dans le cas des stations ne prélevant que des échantillons instantanés, ce tableau ne donnera pas le *débit des sédiments en suspension* ni les données statistiques du *résumé*.

DÉFINITION DES TERMES

Les définitions suivantes sont présentées afin de faciliter la compréhension des termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): Prélèvement d'un mélange de sédiments et d'eau au moyen d'une pompe fonctionnant automatiquement, en un point précis d'un cours d'eau.

Charriage (Bed load): Matières roulées ou poussées sur le fond sous l'action de l'eau, mais restant en contact presque permanent avec le fond.

Matériau du lit (Bed material): Mélange de sédiments composant le lit d'un cours d'eau.

Débit journalier des sédiments en suspension (Daily load): Débit des sédiments en suspension exprimé en tonnes par jour, pour une journée donnée. On l'obtient en multipliant la concentration journalière moyenne des sédiments (mg/L) par le débit journalier moyen de l'eau (m^3/s) et le facteur de conversion 0.0864.

Concentration journalière moyenne (Daily mean concentration): Moyenne pondérée en fonction du temps, calculée à partir d'une courbe de la concentration établie manuellement. La valeur de la concentration moyenne peut être déterminée arithmétiquement ou graphiquement. Pour la déterminer arithmétiquement, on peut, soit choisir sur la courbe des valeurs représentant des intervalles uniformes de temps et faire la moyenne arithmétique, soit choisir sur cette courbe

time intervals represented by the concentrations. For graphical explanation refer to *Office Procedures for Sediment Data Computations* and for the automated graphical explanation refer to *Automated Hydrometric Computation Procedures*.

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Instantaneous suspended sediment sample is a sample collected at a fixed vertical in a river cross section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of particles in a sediment sample.

Point-integrated sediment sample is a sample of the water-sediment mixture taken over a specified period of time at a fixed point and depth in a river cross section.

Sediment is fragmental material which has been deposited, eroded or transported by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Single sample is a sample taken at a selected permanent vertical in a cross section. Two bottles of water-sediment mixture make up each single sample.

Single sampling vertical is a selected permanent vertical in a cross section in which single suspended sediment samples are collected.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. The units of this ratio are "milligrams per litre" (mg/L).

Suspended sediment load is the quantity of suspended sediment transported through a cross section per unit of time.

des valeurs qui représentent des intervalles inégaux de temps et pondérer ces valeurs en fonction des intervalles de temps correspondants. En ce qui concerne les méthodes graphiques, consulter *Méthodes de bureau pour les calculs de données sur les sédiments* et, pour la méthode automatisée, *Automated Hydrometric Computation Procedures*.

Échantillon intégré sur toute la profondeur (Depth integrated sediment sample): Échantillon des sédiments en suspension prélevé sur une verticale précise d'une section transversale d'un cours d'eau à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante; il représente un échantillon moyen des matières en suspension entre la surface de l'eau et environ 9 cm du fond.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): Échantillon prélevé à une verticale précise d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): Débit des sédiments en suspension qui peut être calculé à partir du débit du cours d'eau et de la concentration des sédiments déterminée à partir d'échantillons intégrés sur toute la profondeur.

Analyse granulométrique (Particle-size analysis): Détermination de la répartition de la taille des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré (Point-integrated sediment sample): Échantillon constitué d'un mélange d'eau et de sédiments, prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau et à une profondeur donnée.

Sédiments (Sediment): Matières fragmentaires qui ont été déposées, érodées ou transportées par un cours d'eau.

Hydrogramme des sédiments (Sediment hydrograph): Graphique représentant la variation de la concentration des sédiments en suspension ou du débit des sédiments en fonction du temps.

Échantillon unique (Single sample): Échantillon prélevé sur une verticale permanente particulière dans une section transversale. Deux bouteilles du mélange eau-sédiments constituent un seul échantillon.

Verticale d'échantillonnage unique (Single sampling vertical): Verticale permanente d'une section transversale où des échantillons uniques de sédiments en suspension sont prélevés.

Sédiments en suspension (Suspended sediment): Matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): Rapport entre le poids des matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Les unités employées sont les «milligrammes par litre» (mg/L).

Débit des sédiments en suspension (Suspended sediment load): Quantité de sédiments en suspension transportés par unité de temps à travers une section transversale d'un cours d'eau.

Total sediment load is the sum of the suspended sediment load and the bed load.

Unmeasured sediment load is the difference between total sediment load and measured suspended sediment load.

DEFINITION OF SYMBOLS

Symbols are located at the bottom of the data sets under the headings Time, Discharge, Concentration, and Dissolved Solids. The symbols with their definitions are listed below.

Time Symbol

E – *Estimated* – indicates estimated data. It indicates that the time of sample collection is estimated by some indirect method or comparison with other stream data.

Discharge Symbol(s)

A – *Manual Gauge* – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – *Ice Conditions* – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – *Estimated* – indicates estimated data. It indicates that the values recorded are estimated by some indirect method such as interpolation, extrapolation, comparison with other streams or by comparison with meteorological data.

H – *Daily Mean Discharge* – is the mean discharge for a particular day, usually referred to as the "daily mean discharge".

V – *Daily Mean; Manual Gauge* – is the mean discharge for a particular day and indicates that one or more manual gauge observations per day were obtained and used as the mean for the day.

W – *Daily Mean; Ice Conditions* – is the mean discharge for a particular day and indicates that the presence of ice has affected the stage-discharge relationship.

Y – *Daily Mean; Estimated* – is the mean discharge for a particular day and indicates that the value has been estimated by some indirect method.

Concentration Symbol(s)

C – *Coarse Material Present* – indicates that during the laboratory analysis coarse material (sand) was observed in the sediment sample.

Débit total des sédiments (Total sediment load): Somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments (Unmeasured sediment load): Différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DÉFINITION DES SYMBOLES

Les symboles figurent au bas des séries de données et sont traités sous les rubriques Temps, Débit, Concentration, Matières solides en solution. Ces symboles avec leurs définitions sont donnés dans la liste ci-après.

Symbole du temps :

E – *Estimative* – Indique des données estimatives, c'est-à-dire que l'heure de prélèvement de l'échantillon est évaluée de façon indirecte ou par comparaison avec d'autres données sur les cours d'eau.

Symbole(s) du débit :

A – *Turbidisonde simple* – Indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – *Glaces* – Indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – *Estimative* – Indique des données estimatives, c'est-à-dire que les valeurs enregistrées sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

H – *Débit journalier moyen* – Débit moyen pour une journée donnée, ordinairement appelé «débit journalier moyen».

V – *Débit journalier moyen; turbidisonde simple* – Débit moyen pour une journée donnée; indique qu'on a effectué au moins une observation par jour et qu'on s'en est servi comme moyenne pour la journée en question.

W – *Débit journalier moyen; glaces* – Débit moyen pour une journée donnée; indique que la présence de glaces a faussé la relation hauteur-débit.

Y – *Débit journalier moyen; estimative* – Débit moyen pour une journée donnée; indique que la valeur a été évaluée de façon indirecte.

Symbole(s) de la concentration :

C – *Sable grossier présent* – Indique qu'au cours de l'analyse en laboratoire on a observé du sable grossier dans un échantillon de sédiments.

F – Sample Bottle Filled – indicates that during the laboratory analysis it was observed that the sample bottle had been filled to capacity.

G – Organic Material Present – indicates that during the laboratory analysis it was observed that organic material was collected in the sample bottle.

Single Vertical Symbol(s)

K – Sampling vertical not at the regular single vertical from LEFT bank – indicates that a sample was collected at a location from the left bank, in a cross-section, which is not at the regular single vertical.

L – Sediment measurement vertical not at the regular measurement cross-section from LEFT bank – indicates that the measurement sampling verticals were established from the left bank, in a cross-section which is not the regular measurement cross-section.

M – Sediment measurement vertical – indicates that the sampling vertical is one of several, usually five, and represents a panel width. The instantaneous discharge represents the flow for a panel width.

X – Sampling vertical not at the regular single vertical – indicates that a sample was collected at a location, in a cross-section, which is not at the regular single vertical. The location of the regular single vertical is given at the bottom of the Instantaneous Suspended Sediment data.

Z – Sediment measurement vertical not at the regular measurement cross-section – indicates that a suspended sediment measurement was collected in a cross-section which is not the regular measurement corss-section.

Note: If no symbol is present the samples have then been collected at the regular Single Vertical.

F – Flacon d'échantillonnage rempli – Indique qu'au cours de l'analyse en laboratoire on a observé que le flacon d'échantillonnage avait été complètement rempli.

G – Substance organique présente – Indique qu'au cours de l'analyse en laboratoire on a observé qu'une substance organique a été prélevée dans le flacon d'échantillonnage.

Symbole(s) de la verticale unique :

K – Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle à partir de la rive GAUCHE – Indique qu'un échantillon a été prélevé à un endroit à partir de la rive gauche, dans une section transversale, mais à l'extérieur de la verticale unique habituelle.

L – Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle à partir de la rive GAUCHE – Indique que les verticales de mesure d'échantillonnage ont été établies à partir de la rive gauche, dans un section transversale à l'extérieur de la section transversale de mesure habituelle.

M – Verticale de mesure des sédiments – Indique que la verticale d'échantillonnage est l'une de plusieurs verticales, en général cinq, et qu'elle représente la dimension d'une tranche. Le débit instantané représente le débit relatif à la dimension d'une tranche.

X – Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle – Indique qu'un échantillon a été prélevé à un endroit, dans une section transversale, mais à l'extérieur de la verticale unique habituelle. L'endroit de la verticale unique habituelle est donné à la fin des données sur les sédiments en suspension instantanés.

Z – Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle – Indique qu'une mesure de sédiments en suspension a été prise dans une section transversale à l'extérieur de la section transversale de mesure habituelle.

Note : S'il n'y a pas de symbole, cela indique que les échantillons ont été prélevés à la verticale unique habituelle.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 1.6093 km (kilomètre)

1 cm (centimètre) vaut 0.393 70 pouce
1 m (mètre) vaut 3.2808 pieds
1 km (kilomètre) vaut 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre vaut 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré vaut 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 259.0 ha (hectares)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) vaut 2.4710 acres
1 km^2 (kilomètre carré) vaut 0.386 10 mille carré

1 pied cube vaut 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial vaut 1.2010 gallon américain
1 gallon américain vaut 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour vaut 1.9835 acre-pied
1 pied cube par seconde pendant un jour couvre un volume d'un mille carré par 0.037 19 pouce
1 acre-pied vaut 1.2335 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde vaut 0.6818 mille par heure
1 mille par heure vaut 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètres par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde vaut 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) vaut 35.315 pieds cubes par seconde

1 livre vaut 0.453 59 kg (kilogramme)
1 kg (kilogramme) vaut 2.2046 livres

1 tonne courte (2000 livres) vaut 0.907 18 t (tonne)
1 t (tonne) vaut 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other federal and provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the *Sediment Data Reference Index*.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when the data were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data.

Revisions to daily discharges or sediment data are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Revisions, corrections or additions made to discharges and sediment after January 1, 1980, are indicated by an "R" symbol in the data summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Dans les eaux adjacentes à la frontière internationale, les stations dépendent du Canada ou des États-Unis selon l'accord intervenu entre les deux pays, et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées pour l'obtention des données sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

RÉVISIONS

On a corrigé ou révisé des données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calcul lorsqu'on a enregistré les données sur rubans magnétiques et qu'on a recalculé les moyennes mensuelles à l'aide d'un ordinateur. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de certaines données de base au cours de la révision systématique des données historiques sur le débit.

Les corrections apportées aux débits journaliers ou aux données sur les sédiments ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont indiquées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données révisées sur les débits mensuels et annuels moyens et les extrêmes annuels du débit. Les révisions, corrections ou ajouts apportés aux données sur les débits et sur les sédiments après le 1er janvier 1980 sont indiqués par la lettre R dans les résumés des données. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ABBOTT RIVER ABOVE MIDSHIPMAN BAY - STATION NO. 10VC011

LOCATION: LAT 75 14 00 N LONG 095 41 00 W
DRAINAGE AREA: 191 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	14 JUL 1 *	14 JUL 1 *	--- ---	---	---	. ---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ALLEN RIVER NEAR THE MOUTH - STATION NO. 10VC001

LOCATION: LAT 74 50 48 N LONG 095 03 31 W
DRAINAGE AREA: 448 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	16 JUL 4 *	16 JUL 4 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ARCTIC RED RIVER NEAR THE MOUTH - STATION NO. 10LA002

LOCATION: LAT 66 47 19 N LONG 133 04 46 W
DRAINAGE AREA: 18 600 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	-----PPPP---	MANUAL	1 670 JUN 16	104 AUG 29	--- ---	---	---	---	---
1973	-----CCCC---	MANUAL	3 530 AUG 22	51 SEP 30	310 000 AUG 27	3 000 000	---	---	---
1974	------PCC---	MANUAL	9 630 AUG 7 *	50 SEP 23 *	1 760 000 AUG 7 *	10 400 000 *	---	---	---
1975	-----PPPPP--	MANUAL	4 370 JUN 7	93 OCT 8	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ASTON RIVER ABOVE ASTON BAY - STATION NO. 10TM001

LOCATION: LAT 73 30 00 N LONG 094 08 00 W
DRAINAGE AREA: 961 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	26 JUN 22 *	26 JUN 22 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BACK RIVER ABOVE HERMANN RIVER - STATION NO. 10RC001

LOCATION: LAT 66 05 10 N LONG 096 30 15 W
DRAINAGE AREA: 93 900 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	------P-----	MANUAL	7 JUL 22 *	5 JUL 22 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BUFFALO RIVER AT HIGHWAY NO. 5 - STATION NO. 07PA001

LOCATION: LAT 60 42 44 N LONG 114 54 11 W
DRAINAGE AREA: 18 500 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-SEP MEAN LOAD (TONNES)	SUMMARY : MAY-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-SEP STANDARD ERROR OF MEAN %
1973	----CCCCCC--	MANUAL	254 JUN 27 *	17 MAY 1 *	3 220 OCT 2 *	251 000 *	1 270	1 270	---
1974	----CCCCCP--	MANUAL	151 OCT 1	20 SEP 4	2 890 MAY 22	143 000	929	1 100	15.6

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CALEDONIAN RIVER ABOVE BRACEBRIDGE INLET - STATION NO. 10VC003

LOCATION: LAT 75 37 00 N LONG 098 35 00 W
DRAINAGE AREA: 246 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	18 JUL 2 *	18 JUL 2 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CAMPBELL CREEK NEAR INUVIK - STATION NO. 10LC004

LOCATION: LAT 68 16 04 N LONG 133 15 47 W
DRAINAGE AREA:
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1973	-----PCCCC--	MANUAL	9 JUN 2	0 AUG 3 *	3.2JUN 26	40.6	---	---	---
1974	CCCCCCCCCCCC	MANUAL	35 JUL 18 *	0 JAN 1	12.5JUL 18 *	198 *	1.24	1.24	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CARCAJOU RIVER BELOW IMPERIAL RIVER - STATION NO. 10KB001

LOCATION: LAT 65 17 52 N LONG 127 41 05 W
DRAINAGE AREA: 7 400 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUN 26	10:05	7.2	1530	1QRB	DH48	4834	189	16	20	32	41	62	79	92	99	100			21	59	20
SEP 27	14:05	4.0	138	1QRB	DH48	110	296														

NOTE: SINGLE VERTICAL LOCATED AT 1QLB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1990

CARCAJOU RIVER BELOW IMPERIAL RIVER - STATION NO. 10KB001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	-----PP-P---	MANUAL	132	JUN 18	13	SEP 22 *	---	---	---	---	---	---
1988	----P-P-----	MANUAL	2 070	JUL 6	128	MAY 12	---	---	---	---	---	---
1989	-----P------	MANUAL	731	JUN 20	459	JUN 7	---	---	---	---	---	---
1990	-----P--P---	MANUAL	4 830	JUN 26 *	110	SEP 27	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

COPPERMINE RIVER ABOVE COPPER CREEK - STATION NO. 10PC004

LOCATION: LAT 67 13 41 N LONG 115 53 17 W
DRAINAGE AREA: 46 800 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1987	-----PP-P---	MANUAL	32	JUN 15 *	6	JUN 29 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CUNNINGHAM RIVER ABOVE CUNNINGHAM INLET - STATION NO. 10TM002

LOCATION: LAT 73 51 00 N LONG 093 28 00 W
DRAINAGE AREA: 1 810 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	29	JUN 22 *	29	JUN 22 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

DUBAWNT RIVER AT OUTLET OF MARJORIE LAKE - STATION NO. 06KC003

LOCATION: LAT 64 13 52 N LONG 099 28 37 W
DRAINAGE AREA: 67 300 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	------P-----	MANUAL	3 JUL 9 *	1 JUL 9 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ELEANOR RIVER ABOVE ELEANOR LAKE - STATION NO. 10VC010

LOCATION: LAT 75 20 00 N LONG 094 13 00 W
DRAINAGE AREA: 666 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	20 JUN 30 *	20 JUN 30 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FALLS RIVER NEAR D'IBERVILLE FIORD - STATION NO. 10VH001

LOCATION: LAT 80 36 08 N LONG 079 24 40 W
DRAINAGE AREA: 32.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	199 JUN 9 *	7 JUN 14 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FLAT RIVER NEAR THE MOUTH - STATION NO. 10EA003

LOCATION: LAT 61 31 52 N LONG 125 24 26 W
DRAINAGE AREA: 8 560 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
MAY 04	13:10	1.0	135	3.0	DH48	225 C	144														
MAY 14	11:10	3.0	172	5.0	DH48	211 C	121														
JUN 11	13:45	5.0	223	4.0	DH48	76	134														
JUL 23	11:00	14.0	146	3.0	DH48	42	148														
SEP 04	14:05	6.0	109	4.0	DH48	20	190														
OCT 15	12:45	0.0	55.2 B	3.0	DH48	26	214														

NOTE: SINGLE VERTICAL LOCATED AT WELB (WATER'S EDGE LEFT BANK) FOR 1990

DISCHARGE SYMBOL(S): B - ICE CONDITIONS
CONCENTRATION SYMBOL(S): C - COARSE MATERIAL PRESENT

FLAT RIVER NEAR THE MOUTH - STATION NO. 10EA003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1978	-----PPP-P--	MANUAL	82	JUL 20	8	OCT 4	---	---	---	---	---	---
1979	-----PPPP---	MANUAL	265	JUN 2	23	SEP 14	---	---	---	---	---	---
1980	----P--P-P--	MANUAL	241	MAY 15	29	AUG 30	---	---	---	---	---	---
1981	-----PP-P---	MANUAL	101	JUN 17	8	SEP 21	---	---	---	---	---	---
1982	-----PP-P---	MANUAL	128	JUN 7	5	SEP 25	---	---	---	---	---	---
1983	----PPPPP---	MANUAL	152	MAY 13	10	SEP 29	---	---	---	---	---	---
1984	---P-PPPP---	MANUAL	308	JUN 11	7	SEP 28	---	---	---	---	---	---
1985	----PP-P-P--	MANUAL	395	MAY 24	6	OCT 3	---	---	---	---	---	---
1986	----PP-P----	MANUAL	865	MAY 30 *	13	AUG 28	---	---	---	---	---	---
1987	----PPPP-P--	MANUAL	525	MAY 21	5	OCT 23	---	---	---	---	---	---
1988	----P-PP----	MANUAL	227	JUL 7	38	AUG 29	---	---	---	---	---	---
1989	----PP-PPP--	MANUAL	397	MAY 31	4	OCT 3 *	---	---	---	---	---	---
1990	----PPP-PP--	MANUAL	225	MAY 4	20	SEP 4	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HARRIS RIVER NEAR THE MOUTH - STATION NO. 10QC002

LOCATION: LAT 61 52 41 N LONG 121 17 26 W
DRAINAGE AREA: 701 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-OCT MEAN LOAD (TONNES)	SUMMARY : APR-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-OCT STANDARD ERROR OF MEAN %
1972	------PP----	MANUAL	3	JUL 14	0	JUL 20 *	---	---	---	---	---	---
1973	CCCCCCCCCCCC	MANUAL	34	MAY 6	0	JAN 1	22.5	MAY 6	255	2.14	2.14	---
1974	CCCCCCCCCCCC	MANUAL	69	MAY 14	0	JAN 1	128	MAY 15 *	1 100 *	5.89	4.01	46.7
1975	----P-PPP---	MANUAL	72	JUL 10 *	3	AUG 5	---	---	---	---	---	---
1976	----PCCCCC--	MANUAL	18	AUG 22	1	AUG 8	4.8	MAY 26	101	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HAY RIVER NEAR HAY RIVER - STATION NO. 07OB001

LOCATION: LAT 60 44 42 N LONG 115 51 36 W
DRAINAGE AREA: 47 900 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 17	15:05	9.5	429	76.0	D49	272	201	17	43	61	79	87	94	97	100				6	51	43
JUL 10	09:07	18.0	113	76.0	D49	45	269														
AUG 31	11:15	15.5	35.8	76.0	D49	17	297														

NOTE: SINGLE VERTICAL IS LOCATED AT 76 METRES FOR 1990

NORTHWEST TERRITORIES

HAY RIVER NEAR HAY RIVER - STATION NO. 07OB001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1972	------PC----	MANUAL	880 JUL 19	6 AUG 30	16 600 JUL 19	78 300	---	---	---
1973	---CCCCCCC--	MANUAL	993 APR 28	10 OCT 10	54 000 APR 28	810 000	3 520	3 520	---
1974	---PCCCCCP--	MANUAL	1 200 APR 30	18 AUG 20	119 000 MAY 2 *	1 520 000 *	---	---	---
1975	---PCPPP-P--	MANUAL	381 MAY 26	8 MAY 29	10 000 MAY 14	182 000	---	---	---
1977	---PPP--P---	MANUAL	574 APR 29	34 SEP 20	--- ---	---	---	---	---
1978	----P-P-P---	MANUAL	971 MAY 8	79 SEP 26	--- ---	---	---	---	---
1979	----PP-P-P--	MANUAL	544 JUN 7	28 OCT 12	--- ---	---	---	---	---
1980	---PP--PPP--	MANUAL	64 APR 30	7 MAY 28	--- ---	---	---	---	---
1981	----P-P-P---	MANUAL	1 510 MAY 7 *	1 SEP 22 *	--- ---	---	---	---	---
1982	----PP-P-P--	MANUAL	984 MAY 12	3 OCT 7	--- ---	---	---	---	---
1983	---PP-P-P---	MANUAL	446 MAY 5	8 SEP 7	--- ---	---	---	---	---
1984	---PPP--P---	MANUAL	89 SEP 20	6 MAY 16	--- ---	---	---	---	---
1985	----PPP-P---	MANUAL	966 MAY 7	16 JUL 30	--- ---	---	---	---	---
1986	----P-P--P--	MANUAL	387 MAY 7	7 OCT 3	--- ---	---	---	---	---
1987	---PP-PP-P--	MANUAL	1 100 AUG 12	24 OCT 15	--- ---	---	---	---	---
1988	---PP-P-----	MANUAL	444 JUL 5	342 JUL 22	--- ---	---	---	---	---
1989	----P-P-P---	MANUAL	203 MAY 25	36 SEP 22	--- ---	---	---	---	---
1990	----P-PP----	MANUAL	272 MAY 17	17 AUG 31	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HAYES RIVER ABOVE CHANTREY INLET - STATION NO. 10SB001

LOCATION: LAT 67 32 00 N LONG 094 06 53 W
DRAINAGE AREA: 18 100 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	------P-----	MANUAL	3 JUL 22	3 JUL 22 *	--- ---	---	---	---	---
1987	-----PPP----	MANUAL	208 JUN 27 *	13 AUG 20	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

JEAN RIVER BELOW SLAVE RIVER - STATION NO. 07NC001

LOCATION: LAT 61 14 55 N LONG 113 19 50 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	-------P----	MANUAL	89 AUG 8	89 AUG 8	--- ---	---	---	---	---
1979	------PP-P--	MANUAL	470 JUL 3 *	95 OCT 2	--- ---	---	---	---	---
1980	----P--P-P--	MANUAL	147 OCT 7	65 AUG 18 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KAKISA RIVER AT OUTLET OF KAKISA LAKE - STATION NO. 07UC001

LOCATION: LAT 60 56 25 N LONG 117 25 18 W
DRAINAGE AREA: 15 600 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-SEP MEAN LOAD (TONNES)	SUMMARY : MAY-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-SEP STANDARD ERROR OF MEAN %
1972	------PP----	MANUAL	9 AUG 10	7 JUL 19	--- ---	---	---	---	---
1973	---CCCCCCC--	MANUAL	85 SEP 9	0 APR 1 *	333 SEP 9	4 970	26.6	26.6	---
1974	----CCCCC---	MANUAL	112 JUN 25 *	5 MAY 1	1 020 JUN 25 *	9 260 *	60.5	43.6	39.0

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KAZAN RIVER ABOVE KAZAN FALLS - STATION NO. 06LC001

LOCATION: LAT 63 39 10 N LONG 095 51 19 W
DRAINAGE AREA: 70 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	------P-----	MANUAL	4 JUL 19 *	0 JUL 19 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KAZAN RIVER AT OUTLET OF ENNADAI LAKE - STATION NO. 06LA001

LOCATION: LAT 61 15 13 N LONG 100 58 26 W
DRAINAGE AREA: 21 400 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	------P-----	MANUAL	7 JUL 6 *	0 JUL 6 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LANG RIVER ABOVE PRINCE REGENT INLET - STATION NO. 10TN001

LOCATION: LAT 72 17 00 N LONG 094 12 00 W
DRAINAGE AREA: 134 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	23 JUN 23 *	23 JUN 23 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NORTHWEST TERRITORIES

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT 61 44 50 N LONG 121 13 25 W
DRAINAGE AREA: 2 750 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 52 000 000 TONNES FOR THE PERIOD APR 26 TO OCT 31

DAY	APR DAILY DISCHARGE (m³/s)		APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)		MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	440	B			3 050	B	478 S	126 000	8 710	1 480 S	1 110 000	1
2	448	B			3 200	B	549	152 000	11 600	1 840	1 840 000	2
3	456	B			3 400	B	627 S	184 000	13 200	2 190	2 500 000	3
4	475	B			3 620	B	768	240 000	14 000	2 510 S	3 040 000	4
5	498	B			3 850	B	937	312 000	14 400	2 680	3 330 000	5
6	509	B			4 190		1 040	376 000	14 300	2 630 S	3 250 000	6
7	512	B			4 430		1 090 S	417 000	13 500	2 370	2 760 000	7
8	512	B			4 870		1 110	467 000	12 100	2 010	2 100 000	8
9	520	B			5 230		1 120	506 000	11 100	1 690	1 620 000	9
10	530	B			5 400		1 130 S	527 000	10 600	1 490	1 360 000	10
11	534	B			5 280		1 040	474 000	10 300	1 350	1 200 000	11
12	535	B			5 000		844	365 000	9 950	1 200	1 030 000	12
13	543	B			4 740		653	267 000	9 440	1 050	856 000	13
14	550	B			4 540		494	194 000	8 890	880	676 000	14
15	553	B			4 390		420	159 000	8 400	714	518 000	15
16	559	B			4 300		396	147 000	8 090	625 S	437 000	16
17	561	B			4 280		392	145 000	7 800	595	401 000	17
18	571	B			4 360		397 S	150 000	7 680	580	385 000	18
19	592	B			4 540		412	162 000	7 530	577	375 000	19
20	618	B			4 690		429	174 000	7 350	557	354 000	20
21	652	B			4 820		449	187 000	6 950	531	319 000	21
22	700	B			4 920		474	201 000	6 420	506	281 000	22
23	744	B			5 140		503	223 000	6 020	477	248 000	23
24	800	B			5 490		539 S	256 000	5 730	429	212 000	24
25	733	B			5 760		576	287 000	5 660	378 S	185 000	25
26	1 220	B	258 S	27 200	5 830		613	309 000	5 820	428	215 000	26
27	2 210	B			5 840		650	328 000	6 050	574	300 000	27
28	2 250	B			5 840		688	347 000	6 240	627	338 000	28
29	2 540	B			6 090		843	444 000	6 330	598	327 000	29
30	2 850	B			6 630		1 030	590 000	6 240	582	314 000	30
31					7 380		1 250	797 000				31
TOTAL	25 215			27 200	151 100			9 513 000	270 400		31 881 000	

DAY	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	6 250	565	305 000	3 270	225	63 600	2 500	116	25 100	1
2	6 190	648	358 000	3 140	212	57 500	5 550	117	25 800	2
3	6 480	843	472 000	3 280	197	55 800	5 440	114	24 000	3
4	6 590	1 020	581 000	3 320	184	52 800	5 360	110	22 400	4
5	6 980	1 130	681 000	3 220	170	47 300	2 340	106	21 400	5
6	7 220	1 160	724 000	3 120	155	41 800	2 320	101	20 200	6
7	6 980	1 100	663 000	3 100	141	37 800	2 320	96	19 200	7
8	6 440	940	523 000	3 550	179 S	54 900	2 370	93	19 000	8
9	6 000	791 S	410 000	4 690	226	91 600	5 420	92	19 200	9
10	5 660	724	354 000	4 710	221	89 900	2 490	93 S	20 000	10
11	5 410	680	318 000	4 300	212	78 800	2 550	94	20 700	11
12	5 170	638	285 000	3 880	203	68 100	2 480	92	19 700	12
13	5 080	594	261 000	3 580	194	60 000	2 420	90	18 800	13
14	4 990	556	240 000	3 370	185	53 900	2 480	88	18 900	14
15	5 250	581	264 000	3 190	175	48 200	2 500	86	18 600	15
16	5 260	562	255 000	3 060	167	44 200	2 460	84	17 900	16
17	5 030	503	219 000	2 970	161	41 300	2 450	82	17 400	17
18	4 720	444	181 000	2 900	153	38 300	2 440	80	16 900	18
19	4 440	408	157 000	2 860	145	35 800	2 480	78	16 700	19
20	4 290	381	141 000	2 810	137	33 300	2 450	76	16 100	20
21	4 310	364	136 000	2 750	128 S	30 400	2 350	74	15 000	21
22	4 320	353	132 000	2 730	124	29 200	2 280	72	14 200	22
23	4 210	339	123 000	2 700	123	28 700	2 220	69	13 200	23
24	4 050	324	113 000	2 780	121	29 100	2 170	67	12 600	24
25	3 930	310	105 000	2 750	120	28 500	2 130	65	12 000	25
26	3 830	296	97 900	2 700	118	27 500	2 220	63	12 100	26
27	3 760	285	92 600	2 650	117	26 800	2 310	60 S	12 000	27
28	3 700	275	87 900	2 580	116	25 900	2 280	56	11 000	28
29	3 620	265	82 900	2 480	114	24 400	2 230	51	9 830	29
30	3 500	252	76 200	2 370	113	23 100	2 180	47	8 850	30
31	3 360	239	69 400	2 350	113	22 900				31
TOTAL	157 220		8 507 900	97 160		1 391 400	71 190		518 780	

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

SUSPENDED SEDIMENT FOR 1990

DAY	OCT DAILY DISCHARGE (m^3/s)		OCT MEAN CONCENTRATION (mg/L)		OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	2 150		43		7 990							1
2	2 120		38		6 960							2
3	2 070		34		6 080							3
4	2 040		30	S	5 290							4
5	2 030		30		5 260							5
6	2 030		30		5 260							6
7	1 990		30		5 160							7
8	1 920		30		4 980							8
9	1 870		30		4 850							9
10	1 810		30		4 690							10
11	1 780		29		4 460							11
12	1 750		29		4 380							12
13	1 730		29		4 330							13
14	1 710		29		4 280							14
15	1 690		29		4 230							15
16	1 690		29		4 230							16
17	1 650		29		4 130							17
18	1 580		29		3 960							18
19	1 520		28		3 680							19
20	1 420		28	S	3 440							20
21	1 320		28		3 190							21
22	1 270		27		2 960							22
23	1 300		27		3 030							23
24	1 310		27		3 060							24
25	1 280		27		2 990							25
26	1 260		26		2 830							26
27	1 230	B	26		2 760							27
28	1 190	B	26		2 670							28
29	1 150	B	26		2 580							29
30	1 040	B	26		2 340							30
31	980	B	25		2 120							31
TOTAL	49 880				128 170							

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NORTHWEST TERRITORIES

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)		DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 26	12:30	0.0	1220	W	3.0	K	DH48	186		225	32	35	37	53	68	86	96	100				14	51	35
MAY 01	09:05	1.0	3050	W	3.0	K	DH48	357		177	35	49	70	76	94	94	99	99	100			6	45	49
MAY 03	08:35	0.0	3400	W	3.0	K	DH48	475		193	25	44	65	78	94	96	97	100				4	52	44
MAY 07	10:00	1.0	4410		3.0	K	DH48	968		171	14	24	37	51	69	85	96	100				15	61	24
MAY 10	13:35	4.5	5430		3.0	K	DH48	1017		176	23	35	51	62	80	92	97	100				8	57	35
MAY 18	14:20	9.0	4460		2.0	K	DH48	294		177	33	40	54	66	80	89	97	100				11	49	40
MAY 24	15:40	11.0	5540		MID		D49	545		162	17	22	34	42	60	73	83	97	100			27	51	22
JUN 01	10:55	10.5	8480		MID		D49	1450		162	13	17	31	40	62	78	88	98	100			22	61	17
JUN 01	11:10	10.5	8480		3.0	K	DH48	1443		165	12	15	27	39	62	84	98	100				16	69	15
JUN 04	13:25	8.0	14100		MID		D49	2225		187	23	28	43	55	76	88	94	99	100			12	60	28
JUN 06	07:25	8.0	14300		MID		D49	2679		163	33	41	58	65	80	88	94	99	100			12	47	41
JUN 16	11:00	11.0	8160		MID		D49	633		146	11	16	30	36	55	72	86	98	100			28	56	16
JUN 25	15:00	15.0	5680		MID		D49	367		162														
JUL 09	14:30	17.0	5960		MID		D49	763	C	156														
AUG 08	12:30	17.0	3480		3.0		DH48	137		182														
AUG 21	13:30	16.0	2750		MID		D49	126		175														
AUG 21	15:00	16.0	2750		3.0		DH48	90		182														
SEP 10	14:15	8.0	2490		5.0	K	DH48	64		196														
SEP 27	12:55	9.0	2320		MID		D49	60		191														
OCT 04	11:25	5.0	2040		MID		D49	30		186														
OCT 20	16:00	0.0	1400		WELB		DIP	28																

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS
CONCENTRATION SYMBOL(S): C - COARSE MATERIAL PRESENT
VERTICAL SYMBOL(S): K - NOT AT REGULAR SINGLE SAMPLING VERTICAL,FROM LEFT BANK

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				TOTAL FOR PERIOD (TONNES)		SUMMARY : MAY-OCT MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1972	-----PPPP---	MANUAL	1 550	JUL 27			73	SEP 15			---		---		---		---	---	---
1973	---CCCCCCC--	MANUAL	2 630	JUN 3			1	APR 1			3 140 000	JUN 20			43 900 000	*	238 000	238 000	---
1974	----PCCCC---	MANUAL	9 720	JUL 21	*		89	SEP 16			10 800 000	JUL 21	*		75 000 000	*	---	---	---
1975	------PPP---	MANUAL	795	JUL 9			37	SEP 29			---		---		---		---	---	---
1976	----CCCCCC--	MANUAL	2 680	AUG 25			50	OCT 31			2 430 000	AUG 25			68 100 000		370 000	304 000	21.7
1979	-----CCCCC--	MANUAL	4 590	JUL 6			41	OCT 31			5 200 000	JUL 6			47 400 000		---	---	---
1980	----CCCCCC--	MANUAL	1 850	JUN 6			23	OCT 28			1 020 000	JUL 20			26 200 000		143 000	250 000	26.4
1981	----CCCCCC--	MANUAL	1 680	MAY 9			10	MAY 1			1 330 000	MAY 31			30 600 000		167 000	229 000	22.3
1982	----PCCCCC--	MANUAL	1 180	MAY 25			10	OCT 31			865 000	MAY 25			18 900 000		---	---	---
1983	----CCCCCC--	MANUAL	1 810	JUN 23			11	OCT 31			1 170 000	JUN 5			23 800 000		129 000	209 000	21.2
1984	---CCCCCCC--	MANUAL	1 980	JUL 11			4	APR 6			1 620 000	JUN 13			36 900 000		200 000	208 000	17.5
1985	----CCCCCC--	MANUAL	1 080	JUN 10			1	OCT 29			952 000	JUN 9			29 400 000		160 000	201 000	15.6
1986	----CCCCCCP-	MANUAL	1 980	JUL 8			20	NOV 3			1 950 000	JUL 7			45 600 000		248 000	207 000	13.5
1987	CCCCCCCCCCCC	MANUAL	1 750	JUN 27			0	JAN 1		*	1 540 000	JUN 5			48 600 000		264 000	213 000	11.9
1988	---PCCCCCP-	MANUAL	1 680	JUL 19			2	NOV 9			2 310 000	JUL 19			65 400 000		355 000	227 000	11.8
1989	---PCCCCCC--	MANUAL	1 740	MAY 5			20	OCT 31			1 170 000	MAY 8			27 000 000		147 000	220 000	11.5
1990	---PCCCCCC--	MANUAL	2 680	JUN 5			25	OCT 31			3 330 000	JUN 5			52 000 000		282 000	225 000	10.5

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LORD LINDSAY RIVER ABOVE SANAGAK LAKE - STATION NO. 10SA002

LOCATION: LAT 70 13 00 N LONG 093 57 00 W
DRAINAGE AREA: 1 440 km^2
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	10	JUN 26	*	10	JUN 26	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LORD LINDSAY RIVER ABOVE WESTERN TRIBUTARY - STATION NO. 10SA003

LOCATION: LAT 70 29 00 N LONG 094 28 00 W
DRAINAGE AREA: 717 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	7 JUN 25 *	7 JUN 25 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER (AKLAVIK CHANNEL) ABOVE SCHOONER CHANNEL - STATION NO. 10MC005

LOCATION: LAT 68 15 10 N LONG 134 48 00 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	-----CCCCP--	MANUAL	1 690 JUL 30 *	40 SEP 21	121 000 AUG 20 *	3 820 000 *	---	---	---
1975	-----PPPP---	MANUAL	474 JUL 17	36 SEP 11 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER (EAST CHANNEL) AT INUVIK - STATION NO. 10LC002

LOCATION: LAT 68 22 33 N LONG 133 45 46 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-SEP MEAN LOAD (TONNES)	SUMMARY : JUN-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JUN-SEP STANDARD ERROR OF MEAN %
1974	-----CCCC---	MANUAL	1 940 JUL 31 *	24 SEP 30	69 700 JUL 31 *	1 720 000 *	14 100	14 100	---
1975	-----CCCCC--	MANUAL	1 010 JUL 15	15 OCT 30 *	56 500 JUN 3	981 000	8 010	11 000	27.5
1977	------PP----	MANUAL	282 AUG 5	40 AUG 31	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER (KALINEK CHANNEL) ABOVE ONIAK CHANNEL - STATION NO. 10LC006

LOCATION: LAT 68 23 50 N LONG 133 59 00 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	------CCC---	MANUAL	1 550 AUG 20 *	16 SEP 29 *	154 000 AUG 20 *	2 880 000 *	---	---	---
1975	-----P-PP---	MANUAL	250 JUN 12	42 SEP 5	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER (MIDDLE CHANNEL) ABOVE NAPOIAK CHANNEL - STATION NO. 10LC008

LOCATION: LAT 68 26 00 N LONG 134 06 50 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	------CCC---	MANUAL	2 780 JUL 29 *	61 SEP 30 *	5 410 000 AUG 11 *	114 000 000 *	---	---	---
1975	-----PPPP---	MANUAL	925 JUN 13	91 SEP 11	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER (MIDDLE CHANNEL) AT TUNUNUK POINT - STATION NO. 10LC012

LOCATION: LAT 69 00 57 N LONG 134 41 32 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1987	--------P---	MANUAL	91 SEP 1 *	69 SEP 1 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER (PEEL CHANNEL) ABOVE AKLAVIK - STATION NO. 10MC003

LOCATION: LAT 68 12 50 N LONG 135 06 50 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	-----CCCC---	MANUAL	904 AUG 20 *	30 SEP 29 *	172 000 JUN 6 *	4 600 000 *	---	---	---
1975	-----PPPP---	MANUAL	597 JUN 17	39 SEP 11	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER (WEST CHANNEL) BELOW AKLAVIK CHANNEL - STATION NO. 10MC004

LOCATION: LAT 68 15 30 N LONG 135 03 00 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	------CCC---	MANUAL	974 AUG 20 *	16 SEP 29 *	236 000 AUG 20 *	4 780 000 *	---	---	---
1975	-----P-PP---	MANUAL	460 JUN 17	38 SEP 11	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER ABOVE LIARD RIVER - STATION NO. 10GC004

LOCATION: LAT 61 52 00 N LONG 121 20 00 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	-----CCC----	MANUAL	23 JUL 10	12 JUN 1	--- ---	---	---	---	---
1973	----PCCCC--	MANUAL	61 MAY 19 *	10 MAY 23	--- ---	---	---	---	---
1974	----PCCCC---	MANUAL	48 JUN 9	6 SEP 30 *	--- ---	---	---	---	---
1975	------PPP---	MANUAL	24 JUL 9	12 AUG 18	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER AT ARCTIC RED RIVER - STATION NO. 10LC014

LOCATION: LAT 67 27 30 N LONG 133 44 41 W
DRAINAGE AREA: 1 660 000 km²
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1972	------PPP---	MANUAL	379 AUG 15	223 SEP 9	--- ---	---	---	---	---
1973	-----PCCC---	MANUAL	830 JUN 27	69 AUG 5	1 900 000 JUN 27	51 700 000	---	---	---
1974	-----PCCC---	MANUAL	9 640 AUG 12 *	52 SEP 30	23 300 000 AUG 12 *	182 000 000 *	---	---	---
1975	-----PPPPP--	MANUAL	2 140 JUL 8	44 OCT 8	--- ---	---	---	---	---
1980	-----PCCC---	MANUAL	1 010 JUL 29	51 SEP 13	1 240 000 JUL 29	35 500 000	---	---	---
1981	----PCCCCC--	MANUAL	783 JUN 10	25 OCT 3 *	1 770 000 JUN 10	35 300 000	---	---	---
1982	-----CCCCC--	MANUAL	1 570 AUG 20	26 OCT 13	2 330 000 AUG 20	54 400 000	---	---	---
1983	-----PCCCC--	MANUAL	861 JUN 9	25 OCT 29	1 820 000 JUN 9	35 500 000	---	---	---
1984	----PCCCCC--	MANUAL	2 260 JUL 10	70 OCT 31	3 160 000 JUN 21	95 000 000	---	---	---
1985	-----CCCCC--	MANUAL	711 JUL 9	60 OCT 31	1 400 000 JUN 15	62 900 000	---	---	---
1986	-----CCCCC--	MANUAL	1 240 AUG 18	43 SEP 10	2 440 000 JUN 2	104 000 000	---	---	---
1987	-----CCCCP--	MANUAL	1 520 AUG 18	74 SEP 24	1 880 000 AUG 17	55 600 000	---	---	---
1988	----PCCCCP--	MANUAL	3 100 JUL 6	61 OCT 3	8 240 000 JUL 7	130 000 000	---	---	---
1989	-------P----	MANUAL	275 AUG 30	189 AUG 30	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MACKENZIE RIVER AT NORMAN WELLS - STATION NO. 10KA001

LOCATION: LAT 65 16 21 N LONG 126 53 00 W
DRAINAGE AREA: 1 570 000 km²
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1973	-----PPP-P--	MANUAL	513 JUN 5 *	26 OCT 5 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MARSHALL RIVER ABOVE ASSISTANCE BAY - STATION NO. 10VC008

LOCATION: LAT 74 41 00 N LONG 094 12 00 W
DRAINAGE AREA: 109 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	15 JUL 1 *	15 JUL 1 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MARTIN RIVER AT HIGHWAY NO. 1 - STATION NO. 10GC003

LOCATION: LAT 61 53 50 N LONG 121 36 27 W
DRAINAGE AREA: 2 050 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-SEP MEAN LOAD (TONNES)	SUMMARY : MAY-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-SEP STANDARD ERROR OF MEAN %
1973	----CCCCCC--	MANUAL	301 JUN 28	0 OCT 20 *	1 780 JUN 28	15 800	103	103	---
1974	----CCCCC---	MANUAL	329 MAY 16 *	3 SEP 23	2 270 MAY 16	20 600 *	134	119	13.2
1975	----PPPPP---	MANUAL	279 MAY 4	6 SEP 24	--- ---	---	---	---	---
1976	----PCCCCC--	MANUAL	91 AUG 23	5 SEP 20	456 AUG 24	3 670	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MOUNTAIN RIVER BELOW CAMBRIAN CREEK - STATION NO. 10KC001

LOCATION: LAT 65 13 38 N LONG 128 34 00 W
DRAINAGE AREA: 11 100 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1987	------P-P---	MANUAL	23 JUL 21	8 SEP 22 *	--- ---	---	---	---	---
1988	------P------	MANUAL	1 330 JUL 6 *	1 330 JUL 6	--- ---	---	---	---	---
1989	-----P-------	MANUAL	290 JUN 7	290 JUN 7	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NAGLE CHANNEL BELOW SLAVE RIVER - STATION NO. 07NC002

LOCATION: LAT 61 15 10 N LONG 113 30 30 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	-------PP---	MANUAL	122 SEP 21	83 AUG 9	--- ---	---	---	---	---
1979	------P--P--	MANUAL	539 JUL 3 *	104 OCT 3	--- ---	---	---	---	---
1980	----P--P-P--	MANUAL	162 OCT 7	73 AUG 20 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PEEL RIVER ABOVE FORT MCPHERSON - STATION NO. 10MC002

LOCATION: LAT 67 14 10 N LONG 134 54 28 W
DRAINAGE AREA: 70 600 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 24	19:00	0.0	3280	W	WELB	DH48	640	152	10	14	30	42	65	89	98	100					
MAY 29	17:00	0.0	5780	H	WELB	DH48	3409	169	19	28	44	67	83	89	99	100			11	75	14
MAY 30	17:00	0.0	5530	H	WELB	DH48	1210												11	61	28
MAY 31	17:00	0.0	5090	H	WELB	DH48	1575														
JUN 01	17:00	0.0	4670	H	WELB	DH48	666	148	19	23	45	57	74	88	95	99	100		12	65	23
JUN 02	17:00	0.0	4170	H	WELB	DH48	564														
JUN 03	17:00	0.0	3790	H	WELB	DH48	619														
JUN 04	17:00	0.0	3360	H	WELB	DH48	394														
JUN 06	17:00	8.0	2700	H	WELB	DH48	387														
JUN 08	14:00	8.0	2260	H	WELB	DH48	311														
JUN 11	16:00	9.0	1830	H	WELB	DH48	542	173	19	28	52	69	93	96	99	100			4	68	28
JUN 14	16:05	13.0	1570	H	WELB	DH48	243														
JUN 17	17:00	14.0	1690	H	WELB	DH48	471														
JUN 18	16:00	0.0	2290	H	WELB	DH48	959	204	18	21	39	53	76	94	99	100			6	73	21
JUN 19	17:00	14.0	2440	H	WELB	DH48	774														
JUN 20	16:00	14.0	2320	H	WELB	DH48	505														
JUN 23	17:00	15.0	1990	H	WELB	DH48	224														
JUN 25	16:00	15.0	2520	H	WELB	DH48	642														
JUN 26	16:00	15.0	4320	H	WELB	DH48	7355	221	33	34	61	70	92	100					0	66	34
JUN 27	16:00	15.0	3440	H	WELB	DH48	2415														
JUL 08	17:00	17.0	799	H	WELB	DH48	104	231													
JUL 13	17:00	17.0	706	H	WELB	DH48	62	232													
JUL 19	17:00	19.0	578	H	WELB	DH48	56	238													
JUL 24	17:00	15.0	482	H	WELB	DH48	52														
JUL 28	17:00	13.0	625	H	WELB	DH48	236	260													
JUL 30	17:00	14.0	1030	H	WELB	DH48	205														
JUL 31	17:00	14.0	957	H	WELB	DH48	173														
AUG 02	17:00	12.0	1710	H	WELB	DH48	3536	260	27	36	58	73	92	98	100				2	62	36
AUG 04	17:00	12.0	1690	H	WELB	DH48	566														
AUG 08	17:00	12.0	1290	H	WELB	DH48	281														
AUG 12	17:00	12.0	1000	H	WELB	DH48	142	218													
AUG 20	17:00	12.0	677	H	WELB	DH48	98	236													
AUG 22	17:00	12.0	1270	H	WELB	DH48	911														
AUG 23	17:08	9.0	1880	H	WELB	DH48	930	194													
AUG 26	17:00	10.0	1420	H	WELB	DH48	136	222													
AUG 29	17:00	10.0	1020	H	WELB	DH48	86														
AUG 30	17:00	10.0	967	H	WELB	DH48	101														
SEP 02	17:00	9.0	888	H	WELB	DH48	97	233													
SEP 04	17:00	8.0	853	H	WELB	DH48	55														
SEP 07	17:00	8.0	857	H	WELB	DH48	82	244													
SEP 09	17:00	7.0	1220	H	WELB	DH48	194	226													
SEP 10	17:00	7.0	1380	H	WELB	DH48	204														
SEP 11	17:00	6.0	1320	H	WELB	DH48	119														
SEP 12	17:00	6.0	1190	H	WELB	DH48	71														
SEP 13	17:00	5.0	1010	H	WELB	DH48	47	231													
SEP 14	17:05	5.0	1010	H	WELB	DH48	42	231													
SEP 18	17:00	6.0	1350	H	WELB	DH48	215														
SEP 19	17:00	6.0	1360	H	WELB	DH48	769	222	27	43	67	81	92	95	98	100			5	52	43
SEP 25	17:00	5.0	1190	H	WELB	DH48	103	246													
SEP 26	17:00	5.0	1760	H	WELB	DH48	379														
SEP 27	17:00	5.0	1920	H	WELB	DH48	734	266													

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

DISCHARGE SYMBOL(S): H - DAILY MEAN W - DAILY MEAN; ICE CONDITIONS

PEEL RIVER ABOVE FORT MCPHERSON - STATION NO. 10MC002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1972	------P-P---	MANUAL	229	JUL 18	133	SEP 8	---	---	---	---	---	---
1973	------CC----	MANUAL	1 900	JUL 24	198	JUL 18	554 000	AUG 22	8 260 000	---	---	---
1974	-----PPPP---	MANUAL	3 340	JUL 3	78	JUN 29	---	---	---	---	---	---
1975	-----CC-P---	MANUAL	3 910	JUN 1	77	JUL 12	1 960 000	JUN 1	11 900 000	---	---	---
1976	-----PCCC---	MANUAL	16 100	AUG 15 *	14	JUL 27 *	5 400 000	AUG 15 *	20 200 000 *	---	---	---
1988	----PCCCCP--	MANUAL	1 400	SEP 9	24	OCT 2	456 000	MAY 24	8 260 000	---	---	---
1989	----PPPPPP--	MANUAL	14 700	JUN 26	23	OCT 3	---	---	---	---	---	---
1990	----PPPPP---	MANUAL	7 360	JUN 26	42	SEP 14	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

QINGUQ CREEK NEAR BAKER LAKE - STATION NO. 06MA002

LOCATION: LAT 64 15 24 N LONG 096 19 06 W
DRAINAGE AREA: 431 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	-----P------	MANUAL	3 JUN 28 *	1 JUN 28 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

QUOICH RIVER ABOVE ST. CLAIR FALLS - STATION NO. 06MB001

LOCATION: LAT 64 18 22 N LONG 093 55 02 W
DRAINAGE AREA: 30 100 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	------P-----	MANUAL	6 JUL 20 *	3 JUL 20 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

RAMPARTS RIVER NEAR FORT GOOD HOPE - STATION NO. 10KD004

LOCATION: LAT 66 07 00 N LONG 129 16 16 W
DRAINAGE AREA: 7 410 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1987	-----PPPP---	MANUAL	89 AUG 18	3 JUL 21 *	---	---	---	---	---	---
1988	----P-------	MANUAL	446 MAY 9	131 MAY 26	---	---	---	---	---	---
1989	-----P------	MANUAL	979 JUN 20 *	726 JUN 9	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

REDSTONE RIVER 63 KM ABOVE MOUTH - STATION NO. 10HB005

LOCATION: LAT 63 55 32 N LONG 125 18 02 W
DRAINAGE AREA: 15 400 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1987	-----PP-P---	MANUAL	240 JUL 20	21 SEP 25 *	---	---	---	---	---	---
1988	----P--PP---	MANUAL	758 MAY 25	87 SEP 23	---	---	---	---	---	---
1989	-----P------	MANUAL	1 960 JUN 6 *	1 960 JUN 6	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

REDSTONE RIVER NEAR THE MOUTH - STATION NO. 10HB001

LOCATION: LAT 64 10 56 N LONG 124 39 52 W
DRAINAGE AREA: 16 400 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1973	----PP------	MANUAL	781 MAY 20 *	264 JUN 13 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

RENGLENG RIVER BELOW HIGHWAY NO. 8 - STATION NO. 10LC003

LOCATION: LAT 67 45 22 N LONG 133 50 40 W
DRAINAGE AREA: 1 310 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-SEP MEAN LOAD (TONNES)	SUMMARY : JUN-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JUN-SEP STANDARD ERROR OF MEAN %
1973	----PCCCC---	MANUAL	344 MAY 26 *	3 AUG 10 *	3 030 MAY 26 *	20 300 *	54.2	54.2	---
1974	----P-PPP---	MANUAL	107 MAY 20	5 JUL 3	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ROOT RIVER NEAR THE MOUTH - STATION NO. 10GA001

LOCATION: LAT 62 28 34 N LONG 123 25 49 W
DRAINAGE AREA: 9 820 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)		DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 02	13:30	2.0	96.0	W	3.0	DH48	324		260	26	31	55	71	88	94	97	100			6	63	31
MAY 03	15:30	2.0	123		3.0	DH48	274	C	269													
MAY 23	10:15	9.5	175		3.0	DH48	345		229	35	42	66	87	96	97	99	100			3	55	42
JUN 15	16:00	14.0	132		3.0	DH48	50		226													
JUL 27	08:25	16.0	177.4		3.0	DH48	24		278													
SEP 11	08:25	5.0	178		3.0	DH48	67		250													

NOTE: SINGLE VERTICAL LOCATED AT WELB (WATER'S EDGE LEFT BANK) FOR 1990

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS
CONCENTRATION SYMBOL(S): C - COARSE MATERIAL PRESENT

ROOT RIVER NEAR THE MOUTH - STATION NO. 10GA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1987	----PP-PP---	MANUAL	564 MAY 25	8 SEP 24	--- ---	---	---	---	---
1988	----PPPPP---	MANUAL	1 670 JUL 5 *	63 AUG 3	--- ---	---	---	---	---
1989	---PPPPP-P--	MANUAL	1 190 APR 29	6 OCT 10 *	--- ---	---	---	---	---
1990	----PPP-P---	MANUAL	345 MAY 23	21 JUL 27	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SLAVE RIVER (EAST CHANNEL) NEAR FORT RESOLUTION - STATION NO. 07NC008

LOCATION: LAT 61 17 55 N LONG 113 38 10 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	-------PP---	MANUAL	96 SEP 21		40 AUG 16	*	---	---	---	---	---	---
1979	------PP-P--	MANUAL	354 JUL 4	*	85 OCT 4		---	---	---	---	---	---
1980	----P--P-P--	MANUAL	113 OCT 8		54 AUG 20		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SLAVE RIVER (MIDDLE CHANNEL EAST) NEAR FORT RESOLUTION - STATION NO. 07NC007

LOCATION: LAT 61 17 25 N LONG 113 39 10 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	-------PP---	MANUAL	105 SEP 21		47 AUG 16	*	---	---	---	---	---	---
1979	------PP-P--	MANUAL	401 JUL 4	*	99 OCT 4		---	---	---	---	---	---
1980	----P--P-P--	MANUAL	134 OCT 8		52 AUG 20		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SLAVE RIVER (MIDDLE CHANNEL WEST) NEAR FORT RESOLUTION - STATION NO. 07NC006

LOCATION: LAT 61 16 20 N LONG 113 40 00 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	-------PP---	MANUAL	117 SEP 20		70 AUG 16	*	---	---	---	---	---	---
1979	------PP-P--	MANUAL	509 JUL 4	*	110 OCT 3		---	---	---	---	---	---
1980	----P--P-P--	MANUAL	177 OCT 8		79 AUG 19		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SLAVE RIVER (OLD STEAMBOAT CHANNEL) NEAR FORT RESOLUTION - STATION NO. 07NC003

LOCATION: LAT 61 15 00 N LONG 113 37 24 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	-------PP---	MANUAL	68 SEP 20		50 AUG 15	*	---	---	---	---	---	---
1979	------PP-P--	MANUAL	336 JUL 14	*	78 OCT 5		---	---	---	---	---	---
1980	----P--P-P--	MANUAL	110 OCT 7		62 AUG 20		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SLAVE RIVER (RESDELTA CHANNEL) NEAR FORT RESOLUTION - STATION NO. 07NC009

LOCATION: LAT 61 17 05 N LONG 113 34 55 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	-------PP---	MANUAL	115 SEP 19		103 AUG 10		---	---	---	---	---	---
1979	------PP-P--	MANUAL	579 JUL 4	*	165 OCT 3		---	---	---	---	---	---
1980	----P--P----	MANUAL	152 MAY 13		79 AUG 19	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SLAVE RIVER (WEST CHANNEL) FROM OLD STEAMBOAT CHANNEL - STATION NO. 07NC004

LOCATION: LAT 61 14 05 N LONG 113 41 45 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1979	---------P--	MANUAL	78 OCT 4		78 OCT 4	*	---	---	---	---	---	---
1980	----P--------	MANUAL	100 MAY 14	*	100 MAY 14		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SLAVE RIVER (WEST CHANNEL) NEAR FORT RESOLUTION - STATION NO. 07NC005

LOCATION: LAT 61 15 50 N LONG 113 37 10 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1968
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1978	-------PP---	MANUAL	88 SEP 20		56 AUG 16	*	---	---	---	---	---	---
1979	------PP-P--	MANUAL	528 JUL 3	*	107 OCT 4		---	---	---	---	---	---
1980	----P--P-P--	MANUAL	139 OCT 7		73 AUG 20		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SNOWBLIND CREEK ABOVE LAURA LAKES - STATION NO. 10VC009

LOCATION: LAT 75 11 00 N LONG 093 54 00 W
DRAINAGE AREA: 347 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	21 JUN 30	*	21 JUN 30	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

THELON RIVER ABOVE BEVERLY LAKE - STATION NO. 06JC002

LOCATION: LAT 64 31 53 N LONG 101 21 53 W
DRAINAGE AREA: 65 600 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	------P-----	MANUAL	7 JUL 9 *	0 JUL 9 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH
* - EXTREME FOR PERIOD OF RECORD

THLEWIAZA RIVER ABOVE OUTLET SEALHOLE LAKE - STATION NO. 06HB002

LOCATION: LAT 60 47 02 N LONG 098 46 40 W
DRAINAGE AREA: 27 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	------P-----	MANUAL		0 JUL 6 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH
* - EXTREME FOR PERIOD OF RECORD

TROUT RIVER AT HIGHWAY NO. 1 - STATION NO. 10FA002

LOCATION: LAT 61 08 23 N LONG 119 50 09 W
DRAINAGE AREA: 9 270 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-SEP MEAN LOAD (TONNES)	SUMMARY : MAY-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-SEP STANDARD ERROR OF MEAN %
1973	CCCCCCCCCCCC	MANUAL	29 MAY 5	0 JAN 1 *	444 JUL 1	9 670	83.9	83.9	---
1974	----CCCCC---	MANUAL	123 MAY 16 *	4 MAY 1	2 530 MAY 16 *	25 200 *	164	124	32.5
1975	-----P-PP---	MANUAL	3 JUN 10	0 AUG 1	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH
P - PARTIAL MONTH
* - EXTREME FOR PERIOD OF RECORD

UNNAMED EASTERN TRIBUTARY OF WROTTESLEY RIVER - STATION NO. 10SA004

LOCATION: LAT 70 57 00 N LONG 094 47 00 W
DRAINAGE AREA: 603 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	6 JUN 24 *	6 JUN 24 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH
* - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER ABOVE ALLISON INLET - STATION NO. 10VC005

LOCATION: LAT 75 10 00 N LONG 099 18 00 W
DRAINAGE AREA: ~93 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	15 JUL 2 *	15 JUL 2 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER ABOVE BRACEBRIDGE INLET - STATION NO. 10VC006

LOCATION: LAT 75 42 00 N LONG 100 33 00 W
DRAINAGE AREA: 510 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	30 JUL 6 *	30 JUL 6 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER ABOVE GOODSIR INLET - STATION NO. 10VC004

LOCATION: LAT 75 44 00 N LONG 098 07 00 W
DRAINAGE AREA: 580 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	19 JUL 2 *	19 JUL 2 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER ABOVE KING POINT - STATION NO. 10VB001

LOCATION: LAT 75 29 00 N LONG 105 48 00 W
DRAINAGE AREA: 1 120 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	19 JUL 7 *	19 JUL 7 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER ABOVE SABINE BAY - STATION NO. 10VB003

LOCATION: LAT 75 29 00 N LONG 108 39 00 W
DRAINAGE AREA: 1 340 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	33 JUL 7 *	33 JUL 7 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER ABOVE WARREN POINT - STATION NO. 10VB004

LOCATION: LAT 76 12 00 N LONG 108 27 00 W
DRAINAGE AREA: 193 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	164 JUL 7 *	164 JUL 7 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER ABOVE WEST ARM OF WEATHERALL BAY - STATION NO. 10VB002

LOCATION: LAT 75 43 00 N LONG 107 37 00 W
DRAINAGE AREA: 290 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	10 JUL 7 *	10 JUL 7 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER AT OUTLET OF LAKE JEKYL - STATION NO. 10SA001

LOCATION: LAT 69 47 00 N LONG 093 30 00 W
DRAINAGE AREA: 502 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	14 JUN 25 *	14 JUN 25 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER NEAR CAPE GELL - STATION NO. 10VC012

LOCATION: LAT 75 35 00 N LONG 094 50 00 W
DRAINAGE AREA: 94.3 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	18 JUL 1 *	18 JUL 1 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

UNNAMED RIVER NEAR SCHOMBERG POINT - STATION NO. 10VC007

LOCATION: LAT 75 34 00 N LONG 102 29 00 W
DRAINAGE AREA: 97.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	------P-----	MANUAL	43 JUL 6 *	43 JUL 6 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WEST CRESWELL RIVER ABOVE CRESWELL BAY - STATION NO. 10TN003

LOCATION: LAT 73 02 00 N LONG 094 13 00 W
DRAINAGE AREA: 505 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1975	-----P------	MANUAL	22 JUN 23 *	22 JUN 23 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WILLOWLAKE RIVER BELOW METAHDALI CREEK - STATION NO. 10GB001

LOCATION: LAT 62 39 10 N LONG 122 54 21 W
DRAINAGE AREA: 20 500 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-SEP MEAN LOAD (TONNES)	SUMMARY : MAY-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-SEP STANDARD ERROR OF MEAN %
1973	----CCCCC---	MANUAL	160 MAY 7	15 JUN 24	11 800 MAY 7	99 400 *	650	650	---
1974	----PP-PP---	MANUAL	251 MAY 15 *	4 SEP 12 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

AISHIHIK RIVER NEAR WHITEHORSE - STATION NO. 08AA001

LOCATION: LAT 60 51 40 N LONG 137 03 40 W
DRAINAGE AREA: 4 300 km²
TYPE OF FLOW: REGULATED SINCE 1974
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	-----P------	MANUAL	249 JUN 15 *	249 JUN 15 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ALSEK RIVER ABOVE BATES RIVER - STATION NO. 08AB001

LOCATION: LAT 60 07 09 N LONG 137 58 27 W
DRAINAGE AREA: 16 200 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	------P-P---	MANUAL	1 590 SEP 4 *	408 JUL 16	--- ---	---	---	---	---
1975	----PPPPPP--	MANUAL	1 170 JUL 16	50 MAY 2	--- ---	---	---	---	---
1976	-----P-P-P--	MANUAL	772 AUG 13	89 OCT 20	--- ---	---	---	---	---
1977	----PPP-P--	MANUAL	829 AUG 21	62 OCT 6	--- ---	---	---	---	---
1978	-----PPP---	MANUAL	386 JUL 22	77 SEP 21	--- ---	---	---	---	---
1979	------PP-P--	MANUAL	294 JUL 12	72 OCT 26	--- ---	---	---	---	---
1980	----P--P-P--	MANUAL	214 MAY 15	48 OCT 10	--- ---	---	---	---	---
1982	---------P--	MANUAL	86 OCT 14	86 OCT 14	--- ---	---	---	---	---
1983	----PP-P----	MANUAL	229 AUG 10	43 MAY 24	--- ---	---	---	---	---
1984	-----PP-P---	MANUAL	1 110 JUL 24	115 SEP 20	--- ---	---	---	---	---
1985	------P-P---	MANUAL	754 JUL 5	59 SEP 26	--- ---	---	---	---	---
1986	-----PP--P--	MANUAL	1 030 JUL 24	68 OCT 8	--- ---	---	---	---	---
1987	-----PP-----	MANUAL	682 JUL 23	189 JUN 1	--- ---	---	---	---	---
1988	-----PP--P--	MANUAL	1 040 JUL 18	39 OCT 12 *	--- ---	---	---	---	---
1989	----P-P--P--	MANUAL	958 JUL 20	61 MAY 24	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BIG CREEK NEAR THE MOUTH - STATION NO. 09AH003

LOCATION: LAT 62 34 07 N LONG 137 00 58 W
DRAINAGE AREA: 1 750 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1977	------P-----	MANUAL	14 JUL 13 *	14 JUL 13 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FIRTH RIVER NEAR THE MOUTH - STATION NO. 10MD001

LOCATION: LAT 69 19 00 N LONG 139 34 00 W
DRAINAGE AREA: 5 710 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	-----PP-P---	MANUAL	37 JUN 21		3 SEP 12		---	---	---	---	---	---
1973	-----PPPP---	MANUAL	41 JUN 5		1 JUL 3	*	---	---	---	---	---	---
1974	----PP-PP---	MANUAL	76 MAY 22	*	2 SEP 21		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

INDIAN RIVER ABOVE THE MOUTH - STATION NO. 09EB003

LOCATION: LAT 63 46 16 N LONG 139 37 45 W
DRAINAGE AREA: 2 220 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
MAY 29	14:50	9.0	1.50	5.5	L	DH48	134	183														
MAY 29	14:55	9.0	1.66	10.0	L	DH48	178	189														
MAY 29	15:00	9.0	1.74	16.0	L	DH48	184	175														
MAY 29	15:05	9.0	1.93	24.0	L	DH48	176	180														
MAY 29	15:10	9.0	1.76	30.0	L	DH48	179	171														
JUL 25	13:08	16.0	0.458	13.0	Z	DH48	59	264														
JUL 25	13:12	16.0	0.410	20.5	Z	DH48	57	265														
JUL 25	13:21	16.0	0.382	26.5	Z	DH48	62	260														
JUL 25	13:27	16.0	0.509	32.5	Z	DH48	62	260														
JUL 25	13:34	16.0	0.344	38.5	Z	DH48	62	257														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): L - A SEDIMENT MEASUREMENT VERTICAL NOT AT THE REGULAR CROSS SECTION, FROM LEFT BANK
Z - A SEDIMENT MEASUREMENT NOT AT THE REGULAR MEASUREMENT CROSS-SECTION

INDIAN RIVER ABOVE THE MOUTH - STATION NO. 09EB003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	----P-P-----	MANUAL	184 MAY 29	*	57 JUL 25	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KLONDIKE RIVER ABOVE BONANZA CREEK - STATION NO. 09EA003

LOCATION: LAT 64 02 34 N LONG 139 24 28 W
DRAINAGE AREA: 7 800 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 10	14:57	8.0	26.0	61.0	M	D49	378	108	10	10	12	23	54	89	100					11	79	10
MAY 10	15:02	8.0	33.5	55.0	M	D49	328	109	06	06	09	17	50	92	99	100				8	86	6
MAY 10	15:09	8.0	35.4	43.0	M	D49	299	114	05	06	11	22	53	88	99	100				12	82	6
MAY 10	15:15	8.0	28.7	34.0	M	D49	252	114	03	05	07	15	43	80	98	100				20	75	5
MAY 10	15:21	8.0	37.0	22.0	M	D49	236	116	03	04	06	15	41	83	98	100				17	79	4
JUN 01	12:52	8.0	67.4	63.0	M	D49	268	73	01	03	16	30	49	74	92	99	100			26	71	3
JUN 01	13:16	8.0	94.5	54.0	M	D49	285	78	04	07	16	29	49	71	86	95	99	100		29	64	7
JUN 01	13:24	8.0	83.0	42.0	M	D49	321	81	01	02	11	25	40	57	72	83	89	100		43	55	2
JUN 01	13:35	8.0	80.8	33.0	M	D49	292	80	01	02	08	24	39	56	68	85	96	100		44	54	2
JUN 01	13:45	8.0	99.4	21.0	M	D49	380	74	02	06	12	23	35	53	66	78	87	100		47	47	6
JUL 18	10:03	13.0	14.6	24.0	M	DH48	3	145														
JUL 18	10:15	13.0	11.1	33.0	M	DH48	3	154														
JUL 18	10:24	13.0	12.8	45.0	M	DH48	3	148														
JUL 18	10:35	13.0	24.3	53.0	M	DH48	1	149														
SEP 21	11:35	8.0	16.5	51.0	M	D49	12	134														
SEP 21	11:41	8.0	21.9	55.0	M	D49	10	124														
SEP 21	11:47	8.0	23.7	44.0	M	D49	11	134														
SEP 21	11:53	8.0	20.7	32.0	M	D49	10	136														
SEP 21	11:57	8.0	23.1	22.0	M	D49	13	134														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

KLONDIKE RIVER ABOVE BONANZA CREEK - STATION NO. 09EA003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	----PPP-P---	MANUAL	380	JUN 1	*		1	JUL 18	*		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LIARD RIVER AT UPPER CROSSING - STATION NO. 10AA001

LOCATION: LAT 60 03 00 N LONG 128 54 00 W
DRAINAGE AREA: 33 400 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1972	----P-------	MANUAL	291	MAY 31	*		291	MAY 31			---	---	---	---	---	---
1974	----------P	MANUAL	15	DEC 11			15	DEC 11			---	---	---	---	---	---
1975	-----P------	MANUAL	53	JUN 24			53	JUN 24			---	---	---	---	---	---
1982	-----P-P----	MANUAL	161	JUN 10			4	AUG 25	*		---	---	---	---	---	---
1983	-----P--PP--	MANUAL	239	JUN 4			4	OCT 16			---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

M'CLINTOCK RIVER NEAR WHITEHORSE - STATION NO. 09AB008

LOCATION: LAT 60 36 45 N LONG 134 27 27 W
DRAINAGE AREA: 1 700 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1977	------P-----	MANUAL	33 JUL 12 *	33 JUL 12 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MCQUESTEN RIVER NEAR THE MOUTH - STATION NO. 09DD004

LOCATION: LAT 63 36 40 N LONG 137 16 10 W
DRAINAGE AREA: 2 870 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
MAY 28	16:48	9.0	23.0	14.0	M	D49	65	111														
MAY 28	16:57	9.0	27.8	26.0	M	D49	84	109														
MAY 28	17:03	9.0	25.8	35.0	M	D49	74	107														
MAY 28	17:10	9.0	28.8	44.0	M	D49	66	105														
MAY 28	17:17	9.0	30.9	56.0	M	D49	64	105														
JUL 13	12:20	15.0	4.54	16.0	M	D49	6	191														
JUL 13	12:32	15.0	5.39	26.0	M	D49	4	196														
JUL 13	12:39	15.0	4.71	34.0	M	D49	5	194														
JUL 13	12:46	15.0	5.29	40.0	M	D49	8	197														
JUL 13	12:57	15.0	5.50	50.0	M	D49	11	202														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

MCQUESTEN RIVER NEAR THE MOUTH - STATION NO. 09DD004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1990	----P-P-----	MANUAL	84 MAY 28 *	4 JUL 13 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

OGILVIE RIVER AT KILOMETRE 197.9 DEMPSTER HIGHWAY - STATION NO. 10MA002

LOCATION: LAT 65 21 45 N LONG 138 17 50 W
DRAINAGE AREA: 5 410 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1974	-----P-----P	MANUAL	3 JUN 18 *	3 JUN 18 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PELLY RIVER AT PELLY CROSSING - STATION NO. 09BC001

LOCATION: LAT 62 49 47 N LONG 136 34 50 W
DRAINAGE AREA: 49 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1968	-----P------	MANUAL	204 JUN 5		204 JUN 5		---	---	---	---	---	---
1970	-----PP---P-	MANUAL	355 JUN 11		11 NOV 25		---	---	---	---	---	---
1971	PPP-PPP-----	MANUAL	293 MAY 26		3 FEB 16		---	---	---	---	---	---
1972	-------PPP--	MANUAL	309 AUG 1		11 OCT 5		---	---	---	---	---	---
1973	--P---P-----	MANUAL	40 JUL 29		1 MAR 29	*	---	---	---	---	---	---
1974	-----P---PP-	MANUAL	158 JUN 19		4 NOV 2		---	---	---	---	---	---
1975	-----P-P-P--	MANUAL	462 JUN 7		30 OCT 1		---	---	---	---	---	---
1976	-----P-P-P--	MANUAL	243 JUN 3		15 OCT 5		---	---	---	---	---	---
1977	-----P-P-P--	MANUAL	114 JUN 22		38 OCT 5		---	---	---	---	---	---
1978	-----P-PP---	MANUAL	221 JUN 11		11 SEP 13		---	---	---	---	---	---
1979	-----P-PP---	MANUAL	652 JUN 6	*	9 SEP 10		---	---	---	---	---	---
1980	----P---P---	MANUAL	138 MAY 31		22 SEP 12		---	---	---	---	---	---
1983	-----P------	MANUAL	349 JUN 8		349 JUN 8		---	---	---	---	---	---
1984	-----P------	MANUAL	310 JUN 19		142 JUN 19		---	---	---	---	---	---
1985	-----P------	MANUAL	451 JUN 8		305 JUN 8		---	---	---	---	---	---
1986	-----P------	MANUAL	537 JUN 16		154 JUN 16		---	---	---	---	---	---
1987	------P--P--	MANUAL	41 JUL 29		20 OCT 6		---	---	---	---	---	---
1988	-----P-P----	MANUAL	203 JUN 13		34 AUG 9		---	---	---	---	---	---
1989	-----P-P----	MANUAL	185 JUN 8		2 AUG 31		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STEWART RIVER AT THE MOUTH - STATION NO. 09DD003

LOCATION: LAT 63 16 55 N LONG 139 14 56 W
DRAINAGE AREA: 51 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1968	-----P------	MANUAL	207 JUN 8		207 JUN 8		---	---	---	---	---	---
1975	---P-P-PP---	MANUAL	244 JUN 20		3 APR 7	*	---	---	---	---	---	---
1976	--------P---	MANUAL	17 AUG 12		17 AUG 12		---	---	---	---	---	---
1977	--------PP--	MANUAL	10 AUG 4		10 AUG 4		---	---	---	---	---	---
1978	-----P------	MANUAL	732 JUN 8	*	104 JUN 8		---	---	---	---	---	---
1979	-----P-PP---	MANUAL	189 JUN 15		14 SEP 16		---	---	---	---	---	---
1980	--------P---	MANUAL	26 SEP 28		26 SEP 28		---	---	---	---	---	---
1982	-----P-P----	MANUAL	305 JUN 17		8 AUG 27		---	---	---	---	---	---
1983	--------P---	MANUAL	8 SEP 18		8 SEP 18		---	---	---	---	---	---
1984	-----P-P----	MANUAL	84 JUN 5		8 AUG 24		---	---	---	---	---	---
1986	--------P---	MANUAL	71 SEP 4		58 SEP 4		---	---	---	---	---	---
1987	-----PP-----	MANUAL	129 JUN 23		35 JUL 30		---	---	---	---	---	---
1988	-----P-P----	MANUAL	159 JUN 14		48 AUG 10		---	---	---	---	---	---
1989	-----PP--P--	MANUAL	198 JUN 19		13 OCT 5		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

TAKHINI RIVER NEAR WHITEHORSE - STATION NO. 09AC001

LOCATION: LAT 60 51 08 N LONG 135 44 21 W
DRAINAGE AREA: 6 990 km²
TYPE OF FLOW:
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUN 25	13:49	8.5	37.3	29.0	M	P61	333	51														
JUN 25	14:13	8.5	44.2	37.0	M	P61	330	52														
JUN 25	14:38	8.5	50.2	43.0	M	P61	333	46														
JUN 25	14:52	8.5	58.4	50.0	M	P61	346	45														
JUN 25	15:04	8.5	62.7	65.0	M	P61	366	53														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

TAKHINI RIVER NEAR WHITEHORSE - STATION NO. 09AC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1990	-----P------	MANUAL	366 JUN 25	*	330 JUN 25	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WHITE RIVER AT KILOMETRE 1881.6 ALASKA HIGHWAY - STATION NO. 09CB001

LOCATION: LAT 61 59 12 N LONG 140 33 11 W
DRAINAGE AREA: 6 240 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	---P---------	MANUAL	85 APR 30		85 APR 30		---	---	---	---	---	---
1977	----PPPPP---	MANUAL	11 400 AUG 9	*	70 SEP 28		---	---	---	---	---	---
1978	------P-P---	MANUAL	5 570 JUL 20		91 SEP 24		---	---	---	---	---	---
1979	-----P-P-P--	MANUAL	8 690 AUG 1		104 OCT 10		---	---	---	---	---	---
1980	-----PP--P--	MANUAL	2 170 JUL 31		168 OCT 1		---	---	---	---	---	---
1982	--------P---	MANUAL	3 030 SEP 18		3 030 SEP 18		---	---	---	---	---	---
1983	--------P---	MANUAL	131 SEP 14		131 SEP 14		---	---	---	---	---	---
1984	-----P-PPP--	MANUAL	5 060 AUG 2		14 OCT 10	*	---	---	---	---	---	---
1985	------PPP---	MANUAL	7 910 JUL 3		115 SEP 27		---	---	---	---	---	---
1986	-----P-P-P--	MANUAL	4 540 JUN 18		405 OCT 11		---	---	---	---	---	---
1987	----PPP-P---	MANUAL	7 930 JUL 17		139 SEP 16		---	---	---	---	---	---
1988	----PPPPP---	MANUAL	7 780 JUN 14		281 SEP 14		---	---	---	---	---	---
1989	---PP-------	MANUAL	5 600 JUN 22		296 MAY 18		---	---	---	---	---	---

MANUAL MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

YUKON RIVER ABOVE WHITE RIVER - STATION NO. 09CD001

LOCATION: LAT 63 05 02 N LONG 139 29 40 W
DRAINAGE AREA: 150 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1977	-------P----	MANUAL	17 AUG 3		17 AUG 3		---	---	---	---	---	---
1978	-----P--P---	MANUAL	418 JUN 7		18 SEP 21		---	---	---	---	---	---
1979	-----P-PP---	MANUAL	245 JUN 14		31 SEP 15		---	---	---	---	---	---
1980	--------P---	MANUAL	20 SEP 27		20 SEP 27		---	---	---	---	---	---
1982	-----P-P----	MANUAL	227 JUN 16		13 AUG 26		---	---	---	---	---	---
1983	-----P--P---	MANUAL	874 JUN 4	*	19 SEP 17		---	---	---	---	---	---
1984	-----P-P----	MANUAL	139 JUN 6		11 AUG 24		---	---	---	---	---	---
1987	------P--P--	MANUAL	23 JUL 31		8 OCT 7	*	---	---	---	---	---	---
1988	-----P-P----	MANUAL	165 JUN 15		31 AUG 11		---	---	---	---	---	---
1989	------P-----	MANUAL	13 JUL 18		11 JUL 18		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

YUKON RIVER AT DAWSON - STATION NO. 09EB001

LOCATION: LAT 64 04 12 N LONG 139 25 30 W
DRAINAGE AREA: 264 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1968	-----P------	MANUAL	229 JUN 5		229 JUN 5		---	---	---	---	---	---
1971	-----P-P----	MANUAL	354 JUN 21		300 AUG 27		---	---	---	---	---	---
1974	-----P-----P	MANUAL	177 JUN 12		18 DEC 4	*	---	---	---	---	---	---
1975	-----P-PP---	MANUAL	263 AUG 13		219 JUN 17		---	---	---	---	---	---
1976	-----P---P--	MANUAL	1 170 JUN 11		53 OCT 1		---	---	---	---	---	---
1977	--------PP---	MANUAL	616 AUG 4		108 SEP 30		---	---	---	---	---	---
1978	--------P----	MANUAL	2 510 AUG 8	*	2 510 AUG 8		---	---	---	---	---	---
1979	-----P--P---	MANUAL	547 JUN 12		187 SEP 13		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

YUKON RIVER AT WHITEHORSE - STATION NO. 09AB001

LOCATION: LAT 60 42 50 N LONG 135 02 35 W
DRAINAGE AREA: 19 400 km²
TYPE OF FLOW: REGULATED SINCE 1926
TYPE OF GAUGE: POWER PLANT

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-DEC MEAN LOAD (TONNES)	SUMMARY : MAY-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-DEC STANDARD ERROR OF MEAN %
1970	----CCCCCCCC	MANUAL	8 MAY 20		1 NOV 16	*	162 AUG 7		18 100	*	73.8	73.8	---
1971	PPP---------	MANUAL	3 JAN 5		2 FEB 1		---	---	---		---	---	---
1977	------P-----	MANUAL	36 JUL 12	*	36 JUL 12		---	---	---		---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NAME	STATION NO.	PAGE
NORTHWEST TERRITORIES		
ABBOTT RIVER ABOVE MIDSHIPMAN BAY	10VC011	1
ALLEN RIVER NEAR THE MOUTH	10VC001	1
ARCTIC RED RIVER NEAR THE MOUTH	10LA002	1
ASTON RIVER ABOVE ASTON BAY	10TM001	1
BACK RIVER ABOVE HERMANN RIVER	10RC001	2
BUFFALO RIVER AT HIGHWAY NO. 5	07PA001	2
CALEDONIAN RIVER ABOVE BRACEBRIDGE INLET	10VC003	2
CAMPBELL CREEK NEAR INUVIK	10LC004	2
CARCAJOU RIVER BELOW IMPERIAL RIVER	10KB001	3
COPPERMINE RIVER ABOVE COPPER CREEK	10PC004	3
CUNNINGHAM RIVER ABOVE CUNNINGHAM INLET	10TM002	3
DUBAWNT RIVER AT OUTLET OF MARJORIE LAKE	06KC003	4
ELEANOR RIVER ABOVE ELEANOR LAKE	10VC010	4
FALLS RIVER NEAR D'IBERVILLE FIORD	10VH001	4
FLAT RIVER NEAR THE MOUTH	10EA003	4
HARRIS RIVER NEAR THE MOUTH	10QC002	5
HAY RIVER NEAR HAY RIVER	07OB001	5
HAYES RIVER ABOVE CHANTREY INLET	10SB001	6
JEAN RIVER BELOW SLAVE RIVER	07NC001	6
KAKISA RIVER AT OUTLET OF KAKISA LAKE	07UC001	7
KAZAN RIVER ABOVE KAZAN FALLS	06LC001	7
KAZAN RIVER AT OUTLET OF ENNADAI LAKE	06LA001	7
LANG RIVER ABOVE PRINCE REGENT INLET	10TN001	7
LIARD RIVER NEAR THE MOUTH	10ED002	8
LORD LINDSAY RIVER ABOVE SANAGAK LAKE	10SA002	10
LORD LINDSAY RIVER ABOVE WESTERN TRIBUTARY	10SA003	11
MACKENZIE RIVER (AKLAVIK CHANNEL) ABOVE SCHOONER CHANNEL	10MC005	11
MACKENZIE RIVER (EAST CHANNEL) AT INUVIK	10LC002	11
MACKENZIE RIVER (KALINEK CHANNEL) ABOVE OMIAK CHANNEL	10LC006	11
MACKENZIE RIVER (MIDDLE CHANNEL) ABOVE NAPOIAK CHANNEL	10LC008	12
MACKENZIE RIVER (MIDDLE CHANNEL) AT TUNUMUK POINT	10LC012	12
MACKENZIE RIVER (PEEL CHANNEL) ABOVE AKLAVIK	10MC003	15
MACKENZIE RIVER (WEST CHANNEL) BELOW AKLAVIK CHANNEL	10MC004	15
MACKENZIE RIVER ABOVE LIARD RIVER	10GC004	12
MACKENZIE RIVER AT ARCTIC RED RIVER	10LC014	13
MACKENZIE RIVER AT NORMAN WELLS	10KA001	13
MARSHALL RIVER ABOVE ASSISTANCE BAY	10VC008	13
MARTIN RIVER AT HIGHWAY NO. 1	10GC003	14
MOUNTAIN RIVER BELOW CAMBRIAN CREEK	10KC001	14
NAGLE CHANNEL BELOW SLAVE RIVER	07NC002	14
PEEL RIVER ABOVE FORT MCPHERSON	10MC002	15
QINGUQ CREEK NEAR BAKER LAKE	06MA002	16
QUOICH RIVER ABOVE ST. CLAIR FALLS	06HB001	16
RAMPARTS RIVER NEAR FORT GOOD HOPE	10KD004	16
REDSTONE RIVER 63 KM ABOVE MOUTH	10HB005	16
REDSTONE RIVER NEAR THE MOUTH	10HB001	17
RENGLENG RIVER BELOW HIGHWAY NO. 8	10LC003	17
ROOT RIVER NEAR THE MOUTH	10GA001	17
SLAVE RIVER (EAST CHANNEL) NEAR FORT RESOLUTION	07NC008	18
SLAVE RIVER (MIDDLE CHANNEL EAST) NEAR FORT RESOLUTION	07NC007	18
SLAVE RIVER (MIDDLE CHANNEL WEST) NEAR FORT RESOLUTION	07NC006	18
SLAVE RIVER (OLD STEAMBOAT CHANNEL) NEAR FORT RESOLUTION	07NC003	18
SLAVE RIVER (RESIDELTA CHANNEL) NEAR FORT RESOLUTION	07NC009	19
SLAVE RIVER (WEST CHANNEL) FROM OLD STEAMBOAT CHANNEL	07NC004	19
SLAVE RIVER (WEST CHANNEL) NEAR FORT RESOLUTION	07NC005	19
SNOWBLIND CREEK ABOVE LAURA LAKES	10VC009	19
THELON RIVER ABOVE BEVERLY LAKE	06JC002	20
THLEWIAZA RIVER ABOVE OUTLET SEAL HOLE LAKE	06HB002	20
TROUT RIVER AT HIGHWAY NO. 1	10FA002	20
UNNAMED EASTERN TRIBUTARY OF WROTTESLEY RIVER	10SA004	20
UNNAMED RIVER ABOVE ALLISON INLET	10VC005	21
UNNAMED RIVER ABOVE BRACEBRIDGE INLET	10VC006	21
UNNAMED RIVER ABOVE GOODSIR INLET	10VC004	21
UNNAMED RIVER ABOVE KING POINT	10VB001	21
UNNAMED RIVER ABOVE SABINE BAY	10VB003	22
UNNAMED RIVER ABOVE WARREN POINT	10VB004	22
UNNAMED RIVER ABOVE WEST ARM OF WEATHERALL BAY	10VB002	22
UNNAMED RIVER AT OUTLET OF LAKE JEKYL	10SA001	22
UNNAMED RIVER NEAR CAPE CELL	10VC012	23
UNNAMED RIVER NEAR SCHOMBERG POINT	10VC007	23
WEST CRESWELL RIVER ABOVE CRESWELL BAY	10TN003	23
WILLOWLAKE RIVER BELOW METAHDALI CREEK	10GB001	23
YUKON TERRITORY		
AISHIHIK RIVER NEAR WHITEHORSE	08AA001	24
ALSEK RIVER ABOVE BATES RIVER	08AB001	24
BIG CREEK NEAR THE MOUTH	09AH003	24
FIRTH RIVER NEAR THE MOUTH	10MD001	25
INDIAN RIVER ABOVE THE MOUTH	09EB003	25
KLONDIKE RIVER ABOVE BONANZA CREEK	09EA003	26
LIARD RIVER AT UPPER CROSSING	10AA001	26
M'CLINTOCK RIVER NEAR WHITEHORSE	09AB008	27
MCQUESTEN RIVER NEAR THE MOUTH	09DD004	27
OGILVIE RIVER AT KILOMETRE 197.9 DEMPSTER HIGHWAY	10MA002	27
PELLY RIVER AT PELLY CROSSING	09BC001	28
STEWART RIVER AT THE MOUTH	09DD003	28
TAKHINI RIVER NEAR WHITEHORSE	09AC001	29
WHITE RIVER AT KILOMETRE 1881.6 ALASKA HIGHWAY	09CB001	29

NAME	STATION NO.	PAGE
YUKON RIVER ABOVE WHITE RIVER	09CD001	30
YUKON RIVER AT DAWSON	09EB001	30
YUKON RIVER AT WHITEHORSE	09AB001	30

STATION NO.	NAME	PAGE
	NORTHWEST TERRITORIES	
06HB002	THLEWIAZA RIVER ABOVE OUTLET SEALHOLE LAKE	20
06JC002	THELON RIVER ABOVE BEVERLY LAKE	20
06KC003	DUBAWNT RIVER AT OUTLET OF MARJORIE LAKE	4
06LA001	KAZAN RIVER AT OUTLET OF ENNADAI LAKE	7
06LC001	KAZAN RIVER ABOVE KAZAN FALLS	7
06MA002	QINGUQ CREEK NEAR BAKER LAKE	16
06MB001	QUOICH RIVER ABOVE ST. CLAIR FALLS	16
07MC001	JEAN RIVER BELOW SLAVE RIVER	6
07NC002	NAGLE CHANNEL BELOW SLAVE RIVER	14
07NC003	SLAVE RIVER (OLD STEAMBOAT CHANNEL) NEAR FORT RESOLUTION	18
07NC004	SLAVE RIVER (WEST CHANNEL) FROM OLD STEAMBOAT CHANNEL	19
07NC005	SLAVE RIVER (WEST CHANNEL) NEAR FORT RESOLUTION	19
07NC006	SLAVE RIVER (MIDDLE CHANNEL WEST) NEAR FORT RESOLUTION	18
07NC007	SLAVE RIVER (MIDDLE CHANNEL EAST) NEAR FORT RESOLUTION	18
07NC008	SLAVE RIVER (EAST CHANNEL) NEAR FORT RESOLUTION	18
07NC009	SLAVE RIVER (RESDELTA CHANNEL) NEAR FORT RESOLUTION	19
07OB001	HAY RIVER NEAR HAY RIVER	5
07PA001	BUFFALO RIVER AT HIGHWAY NO. 5	5
07UC001	KAKISA RIVER AT OUTLET OF KAKISA LAKE	7
10EA003	FLAT RIVER NEAR THE MOUTH	4
10ED002	LIARD RIVER NEAR THE MOUTH	8
10FA002	TROUT RIVER AT HIGHWAY NO. 1	20
10GA001	ROOT RIVER NEAR THE MOUTH	17
10GB001	WILLOWLAKE RIVER BELOW METAHDALI CREEK	23
10GC002	HARRIS RIVER NEAR THE MOUTH	5
10GC003	MARTIN RIVER AT HIGHWAY NO. 1	14
10GC004	MACKENZIE RIVER ABOVE LIARD RIVER	13
10HB001	REDSTONE RIVER NEAR THE MOUTH	17
10HB005	REDSTONE RIVER 63 KM ABOVE MOUTH	16
10KA001	MACKENZIE RIVER AT NORMAN WELLS	13
10KB001	CARCAJOU RIVER BELOW IMPERIAL RIVER	3
10KC001	MOUNTAIN RIVER BELOW CAMBRIAN CREEK	14
10KD004	RAMPARTS RIVER NEAR FORT GOOD HOPE	16
10LA002	ARCTIC RED RIVER NEAR THE MOUTH	1
10LC002	MACKENZIE RIVER (EAST CHANNEL) AT INUVIK	11
10LC003	RENGLENG RIVER BELOW HIGHWAY NO. 8	17
10LC004	CAMPBELL CREEK NEAR INUVIK	2
10LC006	MACKENZIE RIVER (KALINEK CHANNEL) ABOVE ONIAK CHANNEL	11
10LC008	MACKENZIE RIVER (MIDDLE CHANNEL) ABOVE NAPOIAK CHANNEL	12
10LC012	MACKENZIE RIVER (MIDDLE CHANNEL) AT TUNUNUK POINT	12
10LC014	MACKENZIE RIVER AT ARCTIC RED RIVER	13
10MC002	PEEL RIVER ABOVE FORT MCPHERSON	15
10MC003	MACKENZIE RIVER (PEEL CHANNEL) ABOVE AKLAVIK	12
10MC004	MACKENZIE RIVER (WEST CHANNEL) BELOW AKLAVIK CHANNEL	12
10MC005	MACKENZIE RIVER (AKLAVIK CHANNEL) ABOVE SCHOONER CHANNEL	11
10PC004	COPPERMINE RIVER ABOVE COPPER CREEK	3
10RC001	BACK RIVER ABOVE HERMANN RIVER	2
10SA001	UNNAMED RIVER AT OUTLET OF LAKE JEKYL	22
10SA002	LORD LINDSAY RIVER ABOVE SANAGAK LAKE	10
10SA003	LORD LINDSAY RIVER ABOVE WESTERN TRIBUTARY	11
10SA004	UNNAMED EASTERN TRIBUTARY OF WROTTESLEY RIVER	20
10SB001	HAYES RIVER ABOVE CHANTREY INLET	6
10TM001	ASTON RIVER ABOVE ASTON BAY	1
10TM002	CUNNINGHAM RIVER ABOVE CUNNINGHAM INLET	1
10TN001	LANG RIVER ABOVE PRINCE REGENT INLET	7
10TN003	WEST CRESWELL RIVER ABOVE CRESWELL BAY	23
10VB001	UNNAMED RIVER ABOVE KING POINT	21
10VB002	UNNAMED RIVER ABOVE WEST ARM OF WEATHERALL BAY	22
10VB003	UNNAMED RIVER ABOVE SABINE BAY	22
10VB004	UNNAMED RIVER ABOVE WARREN POINT	22
10VC001	ALLEN RIVER NEAR THE MOUTH	1
10VC003	CALEDONIAN RIVER ABOVE BRACEBRIDGE INLET	2
10VC004	UNNAMED RIVER ABOVE GOODSIR INLET	21
10VC005	UNNAMED RIVER ABOVE ALLISON INLET	21
10VC006	UNNAMED RIVER ABOVE BRACEBRIDGE INLET	21
10VC007	UNNAMED RIVER NEAR SCHOMBERG POINT	23
10VC008	MARSHALL RIVER ABOVE ASSISTANCE BAY	14
10VC009	SNOWBLIND CREEK ABOVE LAURA LAKES	19
10VC010	ELEANOR RIVER ABOVE ELEANOR LAKE	4
10VC011	ABBOTT RIVER ABOVE MIDSHIPMAN BAY	1
10VC012	UNNAMED RIVER NEAR CAPE GELL	23
10VH001	FALLS RIVER NEAR D'IBERVILLE FIORD	4
	YUKON TERRITORY	
08AA001	AISHIHIK RIVER NEAR WHITEHORSE	24
08AB001	ALSEK RIVER ABOVE BATES RIVER	24
09AB001	YUKON RIVER AT WHITEHORSE	30
09AB008	M'CLINTOCK RIVER NEAR WHITEHORSE	27
09AC001	TAKHINI RIVER NEAR WHITEHORSE	29
09AH003	BIG CREEK NEAR THE MOUTH	24
09BC001	PELLY RIVER AT PELLY CROSSING	28
09CB001	WHITE RIVER AT KILOMETRE 1881.6 ALASKA HIGHWAY	29
09CD001	YUKON RIVER ABOVE WHITE RIVER	30
09DD003	STEWART RIVER AT THE MOUTH	28
09DD004	MCQUESTEN RIVER NEAR THE MOUTH	27
09EA003	KLONDIKE RIVER ABOVE BONANZA CREEK	26
09EB001	YUKON RIVER AT DAWSON	30
09EB003	INDIAN RIVER ABOVE THE MOUTH	25
10AA001	LIARD RIVER AT UPPER CROSSING	25
10MA002	OGILVIE RIVER AT KILOMETRE 197.9 DEMPSTER HIGHWAY	26
10MD001	FIRTH RIVER NEAR THE MOUTH	25